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ENGINEERING

Ver. 5.15

1 MANUAL FOR PROFORT GSM/LAN DEVICES

This manual applies to the Profort GSM units of the type IR remote control (unit 1A and B), IR remote control LAN (unit 2), Technic RF (unit 3), 4 modules (unit 4), 9 modules (unit 5), Technic (unit 6), Basic (unit 7), Max (unit 7), Piccolo® Light (unit 7) and 6 modules (Unit 8).

Since the manual embraces specifications for units you will not need information on, you can see an overview table below and be aware of the specifications and functions of your particular device.

1.1 `Specifications`

SPECIFICATIONS									
	1A IR remote control	**1B** IR remote control	**2** IR remote control LAN	**3** Technic RF	**4** 4 modules	**5** 9 modules	**6** Basic	**7** Basic/Max/ Piccolo® Light	**8** 6 modules
Dimension									
Design	Design box	Design box	Design box	Design box	DIN 4 modules	DIN 9 modules	Design box	Waterproof box/Design box, Light	DIN 6 modules
Size (mm)	130x80x25	130x80x25	130x80x25	130x80x25	69x86x57	157x86x57	130x80x25	225x200x75	114x86x57
Weight (gram)	121	125	125	125	125	360	125	1500 (1250, Basic)	290
Power supply									
Net	12V DC min. 0,5 A (inclusive)	12 V DC min. 0,5 A (inclusive)	5 V DC min. 0,5 A (inclusive)	12 V DC min. 0,5 A (inclusive)	12-24 V AC/DC min. 0,5 A*	230 V AC min. 0,1 A 12-24 V AC/DC min 0,5 A*	12 V DC min. 0,5 A (inclusive)	230 V AC min. 0,1 A 12-24 V AC/DC min 0,5 A*	230 V AC min. 0,1 A 12-24 V AC/DC min 0,5 A*
Battery	3,6 V recharge-able	3,6 V recharge-able (inclusive)	÷	3,6 V recharge-able (inclusive)	3,6 V recharge-able	9V recharge-able	3,6 V recharge-able (inclusive)	9V recharge-able	9V recharge-able
10 V/DC outlet	12V	12V	5V	12V	÷	Max. 100 mA	12V	Max. 100 mA	Max. 100 mA
Consump-tion, approx. standby reloading with battery emergency operation	30 mA 150 mA 2 mA	30 mA 150 mA 2 mA	30 mA	40 mA 150 mA 18 mA	30 mA 150 mA 2 mA	30 mA 5 W	30 mA 150 mA 2 mA	100 mA 5 W	30 mA 5 W
Emergency supply	with battery	with battery	÷	with battery	30 min. with battery	30 min. with battery	with battery	30 minutes with battery	30 minutes with battery

*Supply must not be grounded

Antenna									
Internal, external option	Exterior	Exterior	÷	Exterior (2)	Inner	Inner	Exterior	Inner	Inner

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Temperature									
	÷20-55 °C	÷20-55 °C	÷20-55 °C	÷20-55 °C	÷20-55 °C	÷20-55 °C	÷20-55 °C	÷20-55 °C	÷20-55 °C
Digital input									
• Max. 1V, 2 mA (GND) • Min. 18 V max. 30 V (24 V DC)	÷	3	3	3	3	8	3	8	4
Close (NC) / open (NO)	÷	✓	✓	✓	✓	✓	✓	✓	✓
Gnd/24V DC	÷	GND	GND	GND	✓	✓	GND	✓	✓
Galvanic separation	÷	÷	÷	÷	÷	✓	÷	✓	✓

Analogue input									
• 0-10 V • 0/4-20 mA • PT100 • Profort temperature probe • As digital input	temperature probe	temperature probe + 1	temperature probe + 1	1 + Profort PTC input	1	2	1 + Profort PTC input	4	1

Relay output									
Number of	÷	1	1	1	1	4	1	8	2
Max. ampere v/ 230 V AC and 35 V DC	÷	6	6	6	6	6	6	6	6

Analogue output									
0-10 V	÷	÷	÷	÷	÷	÷	÷	1	÷

Camera connection									
Mini USB	✓	✓	✓	✓	÷	÷	✓	✓	✓

Communication									
GSM modem (min. 2G)	✓	✓	÷	✓	✓	✓3G	✓	✓/optional, Light	✓
Ethernet RJ45	÷	÷	✓	÷	÷	÷	÷	÷	÷
Wireless interface (868 MHz)	÷	÷	÷	✓	÷	÷	÷	✓ (optional, Basic)	÷
Wireless digital sensor, up to numbers of	÷	÷	÷	60	÷	÷	÷	60	÷
Wireless analogue sensor, up to numbers of	÷	÷	÷	32	÷	÷	÷	32	÷

Infrared									
Sender	2	2	2	÷	÷	÷	÷	÷	÷
External sender	1 optional	1 optional	1 optional	÷	÷	÷	1 optional	1 optional	1 optional
Receiver	1	1	1	÷	÷	÷	÷	÷	÷

Display

								built-in (÷, Basic)	
	÷	÷	÷	÷	÷	÷	÷	built-in (÷, Basic)	÷

Sound

Internal audio	÷	÷	÷	✓	✓	✓	✓	✓	✓
Siren	✓	✓	✓	✓	✓	✓	✓	✓	✓

Memory for voice

	÷	÷	÷	÷	÷	90 sec.	÷	90 sec.	÷

Profort PC Program

RS232 (9 pol.)	÷	✓	✓	✓	✓	✓	✓	✓	✓
Quick setup	available on web	availabl on web	available on web	available on web	available on web	available on web	available on web	CR-ROM	Available on web
Basis setup	optional	optional	optional	optional	optional	optional	optional	CR-ROM	optional
Pro setup	optional	optional	optional	optional	optional	optional	optional	optional	optional

1.2 Functions

FUNCTIONS
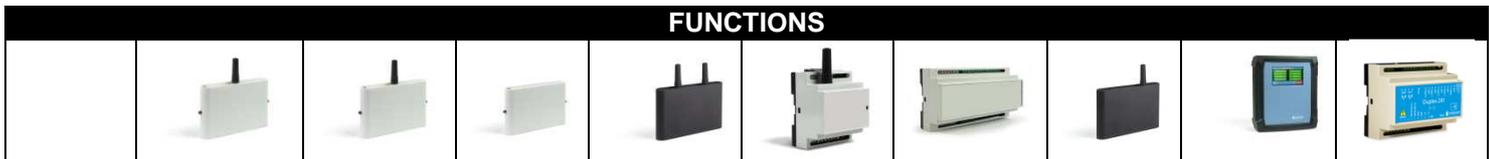
Receivers of alarms

Number of	25	25	25	25	25	25	25	25	25
Receive as: • text messages • email (dep. on operator) • over the Internet • calls with DTMF • via RS 232 port to a computer	✓	✓	e-mail and RS232 over the Internet	✓	✓	✓	✓	✓	✓
• SIA-IP protocol	✓	✓	÷	✓	✓	✓	✓	✓	✓
• voice messages	÷	÷	÷	÷	÷	✓	÷	✓	÷
• on the display of the unit	÷	÷	÷	÷	÷	÷	÷	✓ (÷ Basic)	÷

Control of outputs

• Remote control with text messages, Internet, and DTMF • Automatic activation by alarm on input (from 10 sec. till 15 min.) • Automatic activation by output follows input • Predetermined by	÷	✓	Not text message and DTMF	✓	✓	✓	✓	✓	✓

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- timer
- Predetermined by calendar
- Via macros and commands in text (simple PLC-functions)
- Via the Profort web server and app for smartphones

Macro

Number of	10	10	10	10	10	10	10	10	10
For commands	✓	✓	✓	✓	✓	✓	✓	5	5
For IR codes	✓	✓	✓		÷	÷	÷	5	5

USB/AUX connection

Camera	✓	✓	✓	✓	÷	÷	✓	✓	÷
GPS	✓	✓	✓	✓	÷	÷	✓	✓	÷
Temp.-/humidity sensor	÷	÷	÷	✓	✓	÷	✓	✓	÷

Security

Password	✓	✓	÷	✓	✓	✓	÷	✓	✓
Accepted user(s) (up to 25)	✓	✓	÷	✓	✓	✓	✓	✓	✓
User password for the display	÷	÷	÷	÷	÷	÷	÷	✓ (÷ Basic)	÷

Log

Alarm log (events + commands)	256	256	256	256	256	256	256	256	256
Climate log (measurements 2 x per hour)	24.576	24.576	24.576	24.576	24.576	24.576	24.576	73.728	24.576

Import and export to .csv file

Climate log, export	✓	✓	✓	✓	✓	✓	✓	✓	✓
IR codes, import and export	✓	✓	✓	÷	÷	÷	÷	✓	✓

Programming

Profort PC Program – via RS 232 or Internet	Internet	✓	✓	✓	✓	✓	✓	✓	✓
Text messages	✓	✓	÷	✓	✓	✓	✓	✓	✓
Display	÷	÷	÷	÷	÷	÷	÷	✓ (÷ Basic)	÷

Functions and facilities

Alarm

- Automatic alarm in case of sabotage and power failure (also in disconnected state)
- Wait for 30 sec. before alarm is triggered (burglary alarm)
- Also alarm to the latest user
- Easy to change order of receivers
- Calls three times to same recipient in case of no response (voice call and DTMF) (unit 1 + 4 only have DTMF calls, unit 2 only e-mail)
- Acknowledgement of alarm by pressing # during the message (the call list will be interrupted) (not unit 2)

Input

- Input for counting: Input 1 for pulse or minutes. Input 2 + 3 for level or pulse. Max. 20 Hz and 1-999.999 pulse/minutes
- Variable filter time for inputs: 10 sec. to 64 hours
- Input 0 for connecting/disconnecting, possibly with message to receiver

- Command execution in texts (simple PLC functions)
- Synchronisation of outputs if change of value and in case of power failure

Time
- Automatic or manual setting of the clock
- Time-based connection/disconnection
- Timer function (with repeat)
- Control of status messages
- Status with intervals of minutes, daily, or weekly (Wednesday)
- Indication of time in log
- Calendar function: up to 36 activities by date/daily/weekly

More
- Division of alarms into eight zones (areas), e.g. different for open and close
- Pre-programmed IR codes for heat pumps (not unit 5)
- Set-up with PC program via RS232 (not unit 1A) or GPRS/Internet and Profort server
- Surveillance via the Profort web portal and Android/iPhone app/Windows WEB
- Data communication e.g. with PLC via RS 232 (not unit 1A)
- Macros for execution of more commands simultaneously (max. 10)
- Scaling of analogue inputs for relevant measurement (0-10V/4-20mA)

Some examples of accessories:

- Temperature probe
  (Profort no. 007995)

- Wireless alarms, temperature and humidity gauges
  (unit 4 + 5)

  (cf. Profort product catalogue)

- RS 485 module for extern recipients
  (unit 5 and 7)
  (Profort no. 004745)

- "Professional". Profort PC Program
  for monitoring centre
  (Profort no. 900201)

- Disc antenna
  (Profort no. 369007)

- "Basic". Advanced Profort PC Program
  (Profort no. 900202 / 900214)

- External antenna with 2.5 m cable
  (Profort no. 369003)

- 9V rechargeable battery
  (unit 5-8)

  (Profort no. 300301)

- 3,6V rechargeable Li-ion battery
  (unit 1, 3, 6 and 8)
  (Profort no. 009010)

- IR extension, 2m
  (unit 1, 2 and 8)
  (Profort no. 009065)

- Waterproof box – IP-65
  (unit 4 + 5)
  (Profort no. 007022)

- IR gooseneck
  (unit 1, 2 and 8)
  (Profort no. 009067)

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1.3 `Description`

All devices from Profort a/s can be set up with many parameters e.g. with own alarm texts. The easiest way is to use the enclosed Profort PC Program. Data is transferred from the computer to the device via a cable in the COM port. If the device contains a GSM modem the set-up can also be affected by means of the Internet, text messages or if your model is with display, the programming can be performed directly on the device's display.

Unit 1: IR remote control GSM

Monitoring and remote control. The device contains GSM modem and can transfer data and alarms via text messages, Internet, DTMF, SIA-IP or cable. The unit is also able to record and play infrared codes. This model comes with power supply and a temperature sensor. The model exists in two versions: with and without external in-/output and internal battery.

Unit 2: IR remote control LAN

Monitoring and remote control. The device is connected to a LAN and communicates via the Profort web server. It transfers alarms via the Internet as e-mails. The unit is also able to record and play infrared codes for e.g. air-to-air heat pump. This model comes with a 5V power supply and a temperature sensor. The model has 3 inputs and 1 output.

Unit 3: Technic RF

For surveillance and remote control of e.g. diesel tanks. The unit contains of a GSM modem and can transfer data and alarms via text message, the Internet, DTMF, SIA-IP or cable. The unit has a built-in module that receives signals from wireless detectors.

Unit 4: 4 modules

Monitoring and remote control. The device contains GSM modem and can transfer data and alarms via text messages, e-mail, Internet, DTMF, SIA-IP or cable.

Unit 5: 9 modules

Monitoring and remote control. The device contains GSM modem and transfers data and alarms via text messages, voice message, email, Internet, DTMF, SIA-IP or cable

Unit 6: Technic

For monitoring and remote control of e.g. server rooms. The unit comes with GSM modem and is able to transfer data and alarms via text message, the internet , DTMF, SIA-IP or cable.

Unit 7: Industry

For measuring, monitoring and remote control. It comes with a display (optional) for operation, showing alarms, and log. It can be expanded with a module that receives signals from your wireless detectors. The device contains a GSM modem and is able to transfer data and alarms via SIA-IP, text message, phone call or the Internet.

Unit 7: Industry Max

For object protection, surveillance and remote control. The unit comes with a built-in display for showing alarms, operation, log and a module that receives signals from wireless detectors. The unit can transfer data and alarms via SIA-IP, text message, Internet and as call.

Unit 7: Piccolo® Light

Piccolo® Light is used for object protection, monitoring and remote control. It has a display for alarm display, operation and log as well as a built-in module which receives signals from wireless detectors. The unit is able to transfer data and alarms via text messages, call or the Internet if mounted with a GSM modem.

Unit 8: 9 modules

Monitoring and remote control. The device contains GSM modem and transfers data and alarms via text messages, email, Internet, DTMF, SIA-IP or cable.

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1.4 System illustration

SURVEILLANCE AREA

Wireless detectors e.g:

Objekt-detectors

Temperatur and humidity

Personal alarm

Printer

Setup via PC

RS232

Central

Build-in SIM-card and GSM-antenna

Power

Inputs, e.g:

Technical alarms

x 8

Analog inputs, e.g.:

x 4 — Teperature

Relay-outputs, e.g:

x 8

Sounder

GSM network

ALARMMODTAGELSE

Alarm center

Mobile telephone

Telephone

PC

Internet

Smart phone

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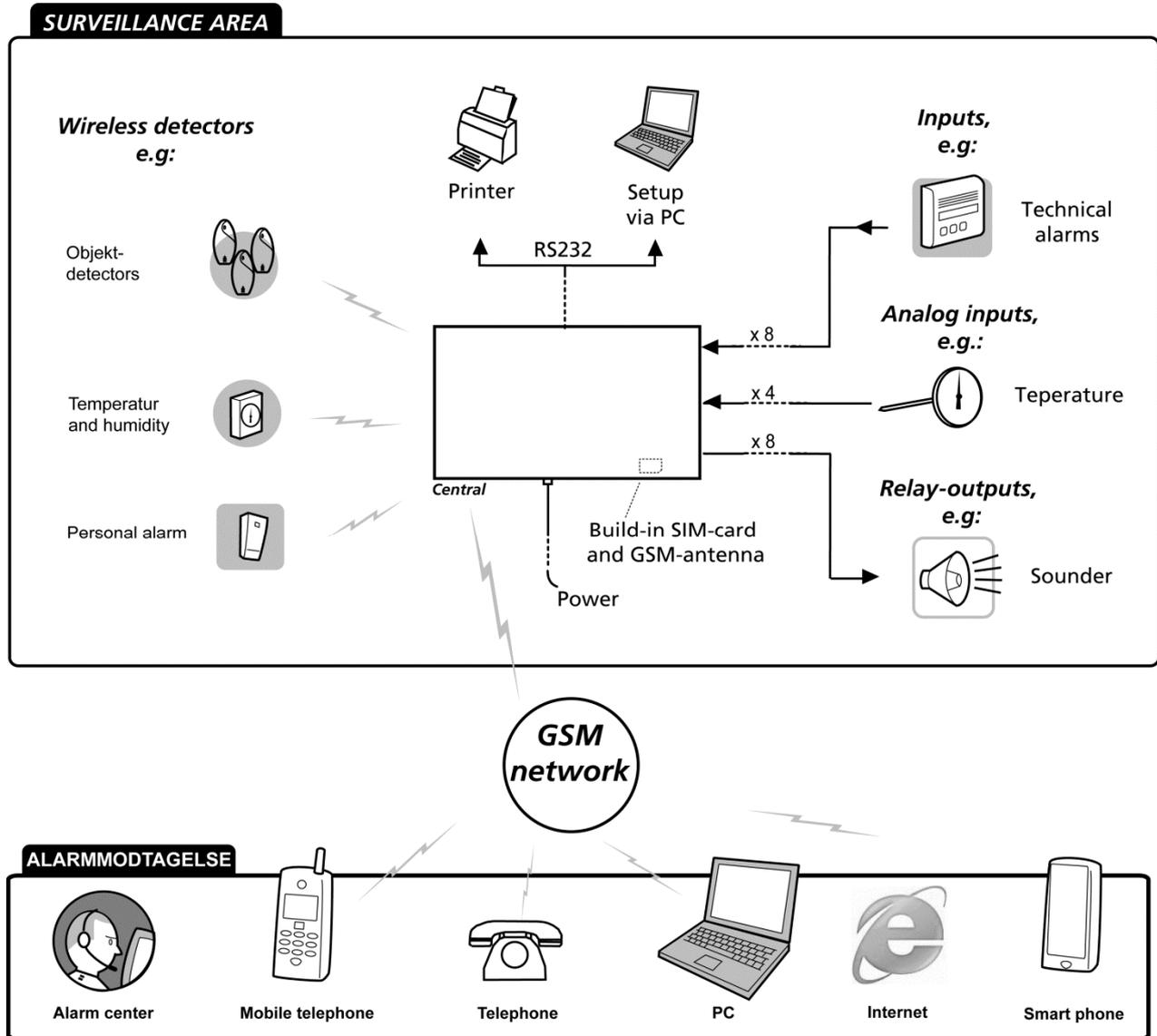
2 MOUNTING

The unit may be mounted in a DIN rail, on a wall, or placed on a table.

In order to obtain optimal signal conditions, Profort a/s recommends:

- Mount the unit vertically and high. The higher it is placed, the better the signals get.
- Do not put the unit behind metal, reinforced concrete, massive stone or granite.

2.1 `Prepare the unit`

Remember to turn off the unit!

Lift off the front cover.

2.2 `Electric mounting`

Figure 2-1

Unit 1A, IR remote control
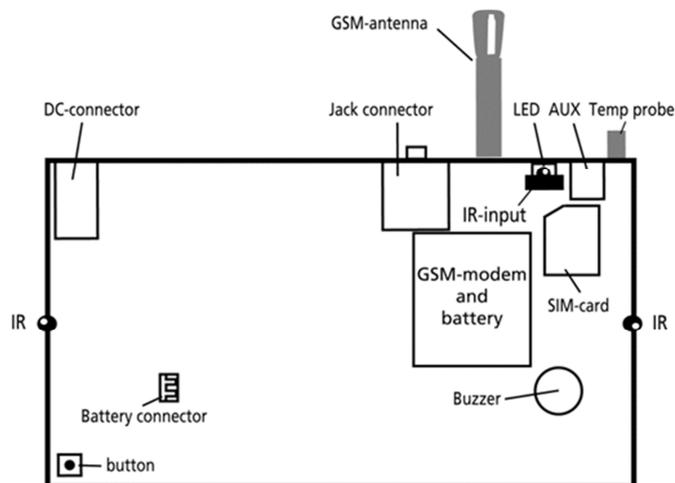
Unit 1B, IR remote control
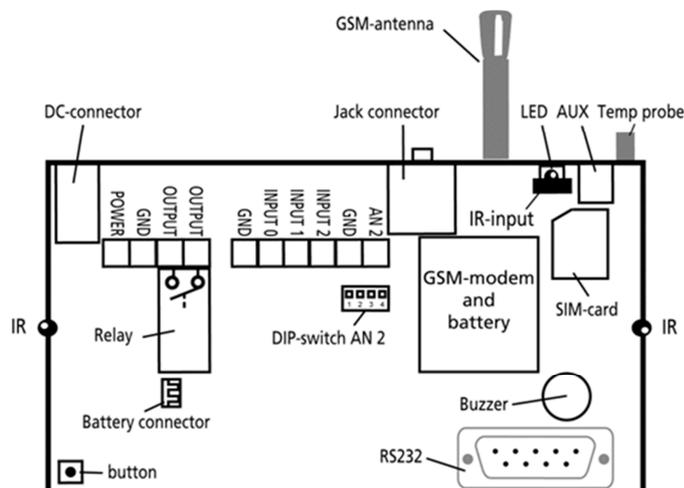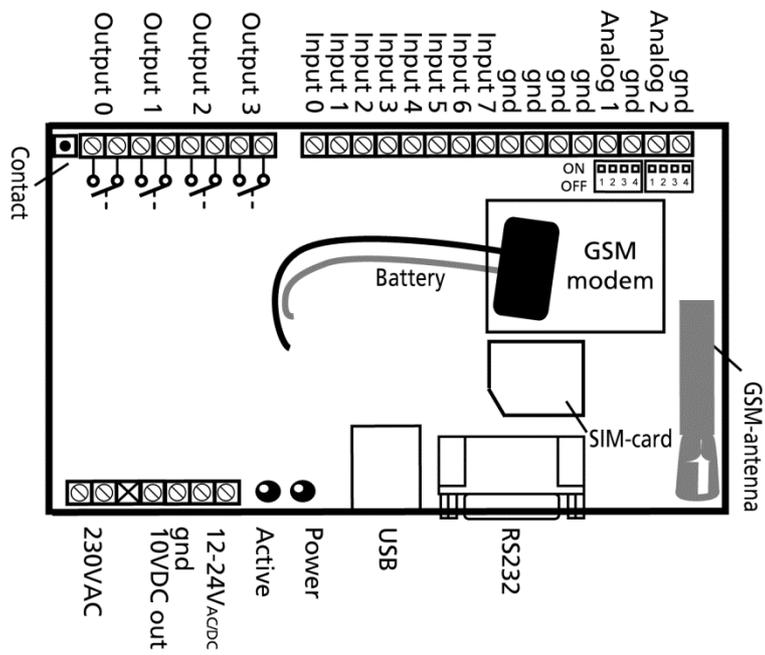
Unit 2, IR remote control LAN

Unit 3, Technic RF

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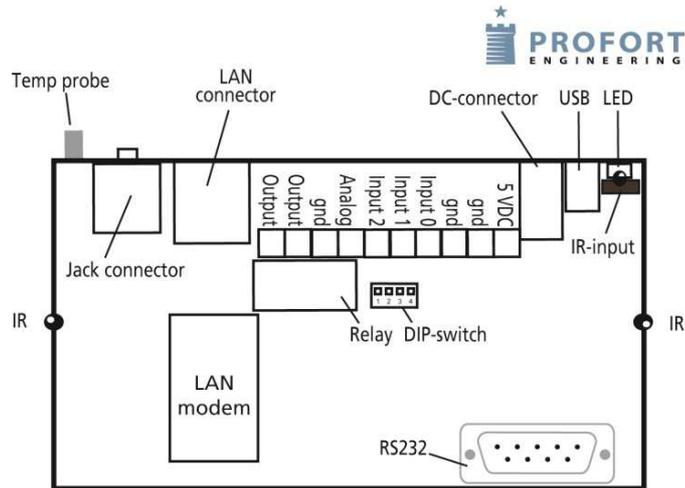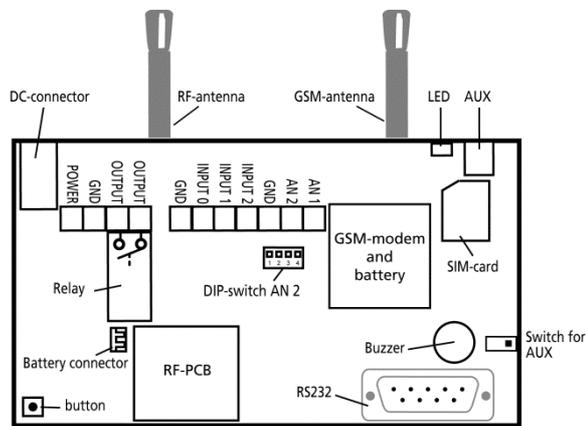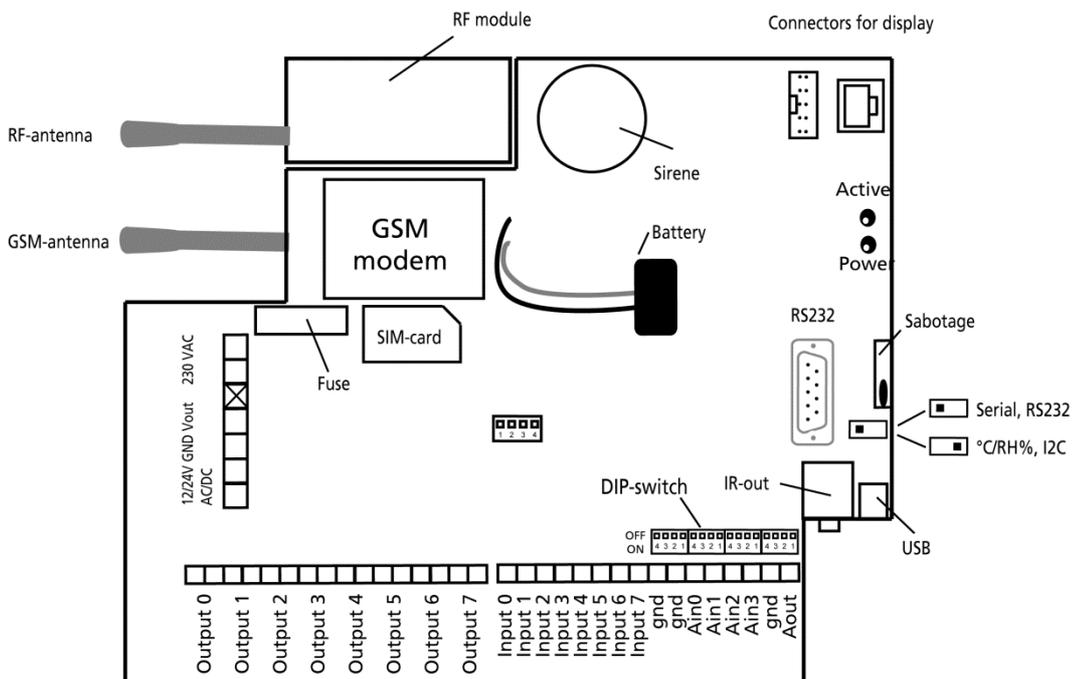
Unit 4, 4 modules

Unit 5, 9 modules

Unit 6, Technic

GSM-antenne

DC-connector

LED   AUX

POWER
GND
OUTPUT
OUTPUT
GND
INPUT 0
INPUT 1
INPUT 2
GND
AN 2
AN 1

GSM-modem
og
batteri

SIM-kort

1 2 3 4

Relæ

DIP-switch AN 2

AUX=kamera, GPS, RS232

Batteri-stik

Buzzer

RS232

knap
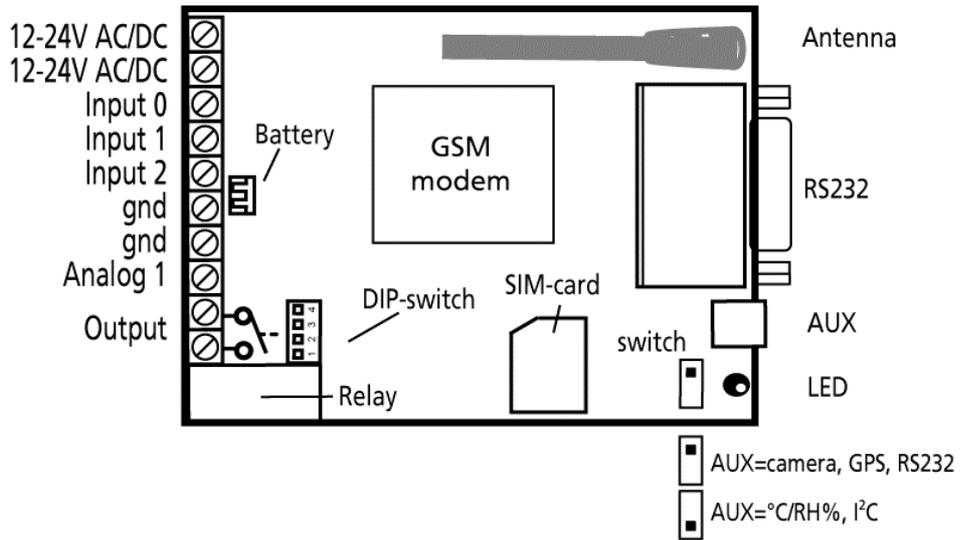
AUX=°C/RH%, I²C
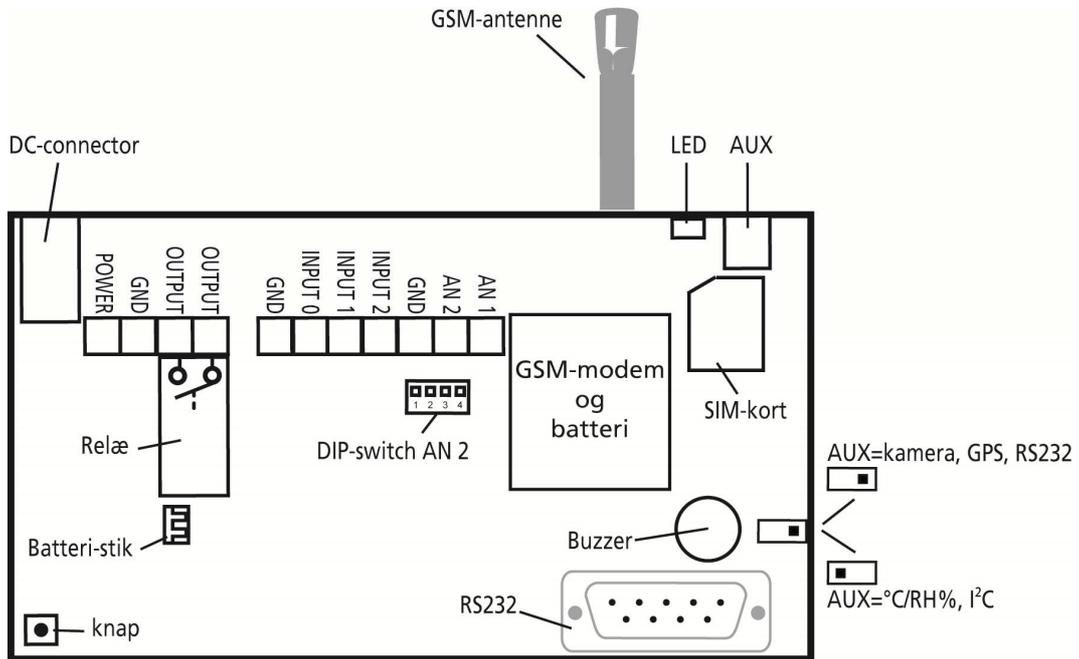
Unit 7, Basic, Max and Piccolo® Light

RF module

Connectors for display

RF-antenna

Sirene

Active

GSM
modem

GSM-antenna

Power

Battery

RS232

Sabotage

230 VAC
12/24V GND Vout
AC/DC

SIM-card

Serial, RS232

Fuse

°C/RH%, I2C

1 2 3 4

DIP-switch

IR-out

OFF
ON
4 3 2 1 4 3 2 1 4 3 2 1 4 3 2 1

USB

Output 0
Output 1
Output 2
Output 3
Output 4
Output 5
Output 6
Output 7
Input 0
Input 1
Input 2
Input 3
Input 4
Input 5
Input 6
Input 7
gnd
gnd
Ain0
Ain1
Ain2
Ain3
gnd
Aout

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Unit 8, 6 modules
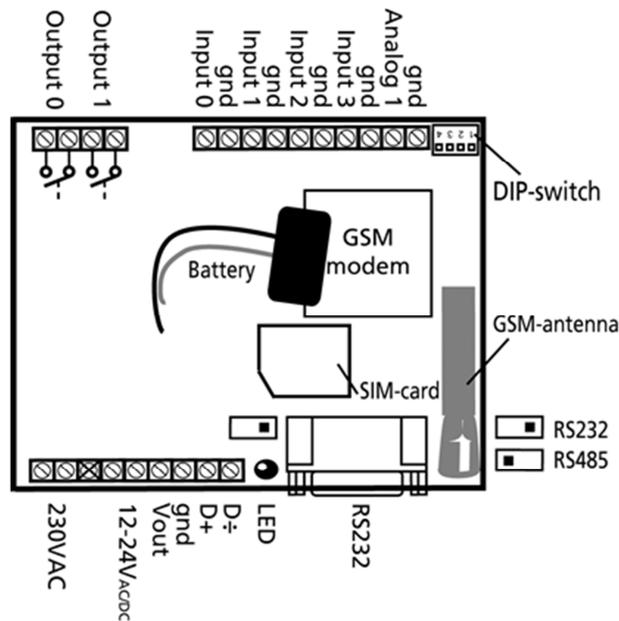
Connect all relay outputs and inputs to the unit. Use at least 0.25 Ø - best even bigger.

Mount digital outputs. Relay outputs are potential-free relay switch sets that are opened (NO) or closed (NC) by instructions to the unit. All relay outputs are opened before start-up.

Mount digital inputs. Digital inputs are activated by connection by either 0V (gnd) or 24 VDC on the inputs (may be changed via 'set-up' in the enclosed PC program or by SMS/text message). When the connection is removed, the inputs are deactivated.
The unit is able to send an alarm both when the connection is turned on and when it is removed.

Units 1, 2 and 3 can only be activated through gnd.

Units 4-9 have both activation via gnd and 24VDC.

NB! Input 0 may be used as connection/disconnection (toggle switch or bell switch). Inputs 1, 2 and 3 may be used as pulse counter or hour counter.

Mount analog inputs. As default the analogue inputs function as ordinary digital inputs (all DIP - switches off).

Units 1 and 2 have a temperature sensor attached to analog inputs.

If the inputs are to have an analogue function, the equipment and probes have to be connected between e.g. gnd and Ain1 or between gnd and Ain2. The figure below is an example of four analog inputs.

Figure 2-2
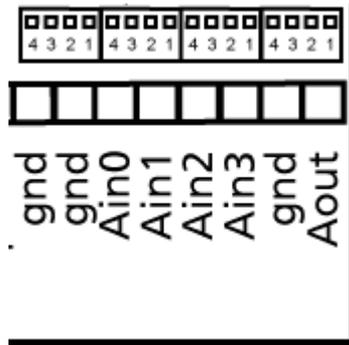
Each analog input has four DIP switches. Setting of inputs to standard equipment (0-10 VDC, 0/4-20 mA, PT100 probe or Profort probe), the DIP switches in the GSM module are to be adjusted as follows:

0-10 V DC:	DIP-switch no. 1 on (others off)
0/4-20 mA:	DIP-switch no. 2 on (others off)
PT100:	DIP-switch no. 3 on (others off)
Profort probes:	DIP-switch no. 4 on (others off)
Digital input:	All DIP switches off

In case an alarm by power failure is wanted, a 9 V rechargeable battery shall be mounted (except for unit 2).

In case of poor GSM reception an external antenna may be mounted (except for unit 2):

1. Remove the internal antenna.
2. Drill a hole in the panel for leading-in a cable.
3. Then mount an extra antenna.

Button:

Button on units 1A, 1B and 3 has the following features:

1. Press down button and connect supply simultaneously. A "beep" will sound after 7 secs. Hereby unit is programmed to the default settings.

2. Press button in normal operation and a "beep" will sound after 7 secs. Let go of the button immediately, and macro 1 will be performed. If there is no function behind macro 1, nothing will happen.

3. If button is held down after 7 secs., another "beep" will sound after 14 secs. Hereby sabotage is activated.

4. If button is pressed briefly in normal operation, then the unit will sound a series of "beeps". It is now ready for the encoding of wireless detectors. If an alarm detector is triggered, the unit will reply by beeping fast and then stop beeping. The first detector is hereby activated.

You can connect several detectors to the unit by repeating the process (Only applicable for figure 3).

2.3 Installing a SIM card (does not apply for unit 2)

On models with GSM modem you have to install a SIM card. All common SIM cards may be used except for pure 3G cards. Profort a/s recommends the use of a SIM card with subscription and not a pre-paid card as the latter often has an expiry date after e.g. six months.
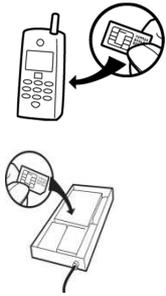
1. Choose the SIM card for the unit

2. Insert the SIM card in an ordinary cell phone

3. Check that the card PIN code is 1234 or deactivate it

4. Check if you can call and send a text message to and from the SIM card in the phone

5. Take the SIM card out of the phone and install it in the GSM unit. If necessary, see Figure 2-1 how to face the card – remember to reverse the position of the detected metal down towards the print

2.4 Connect the unit (does not apply for unit 2)

1. Check that inputs and relay outputs have been correctly connected.

2. Place the front on the unit again.

3. Connect the unit to its power supply. Wait app. 10 sec. while the GSM modem gets in touch with the GSM network. If the device has a sound source, four 'beeps' are heard, and the red diode starts blinking. After app. 20 sec., the unit is ready.

4. If necessary, send a text message with "1234 OK" to return the GSM signal strength. It should preferably be above 25%.

2.5 Connect LAN (only applies for unit 2)

1. Connect the unit to the Internet: The unit is connected to the computer network of the house with a normal LAN cable. When the unit can access the Internet, it creates automatic connection to the Profort server.

2. Supply the unit with power: Mount the power supply and switch on power for the LAN unit. The red control diode is lit for approx. 20 sec. After that, the control diode will flash with one single flash every other second. It confirms that the LAN unit is ready and functions correctly.

3. Register the unit on the Profort webportal: Register yourself as a user on our homepage www.profort.com. Your username is to be found on the label on the back of the unit. The username is, for instance: ID111111. You choose your own password. Type in your email address then we can send your password in case you forget it. Press Register.

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4. How to register the unit:
   a. Give the unit a number.
   b. Give the unit a name.
   c. Type in GSM number. It is the same as the username on the label. However, WITHOUT the letters "ID".
   d. The PIN code is always "1234".
   e. The operator is filled in in advance.
   f. Press Register.

5. Activate the IR codes: The unit is now registered and the IR codes for the heat pump need to be activated. Type in the command: mi(space)(producer name). It is important that you remember to put in a space between mi and the name of the unit. If your heat pump is from, e.g. Panasonic, you write "Panasonic" in producer name.
   The unit answers "OK" if everything functions as it should. If the unit answers "??", the heat pump is unknown and the functions need to be encoded manually.

6. Place the LAN unit correctly: The heat pump receives infrared signals from the LAN unit in the exact same way as a television receives signals from its remote control. Therefore it is important that the LAN unit is placed so that the heat pump can 'see' the IR codes of the LAN unit.
   a. Place the LAN unit in visible distance and max 8 metres from the heat pump. Make sure that there is access to both power supply and a computer network for the unit to be connected.
   b. One of the two IR diodes needs to point towards the heat pump.
   c. Test the position by checking whether the heat pump reacts when it is activated from the app. As extra equipment you can purchase an IR gooseneck or an IR cable in order to have more options for placing the LAN unit in visibility of the IR receiver of the heat pump.
   d. When you are sure that your LAN unit is able to communicate with the heat pump, mount it to wall or ceiling.

3 PREPARING THE PC
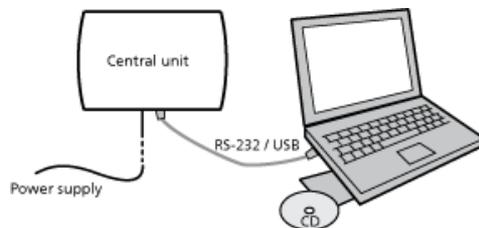
(Does not apply for unit 1A)

Turn on the PC.

Connect a serial RS232 cable in the computer's COM port or via a USB adaptor. Use a nine-pin (male/female) serial cable or use a USB to RS232 serial converter.

If you use a USB cable, the driver of the cable shall be installed according to the guidelines.

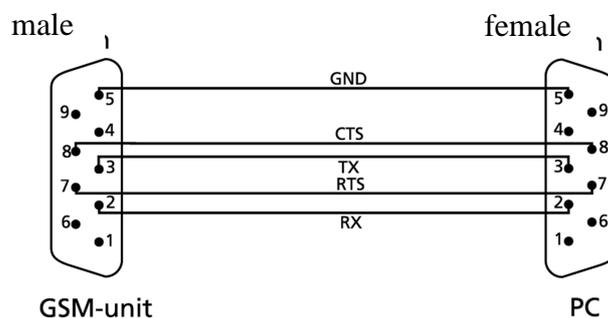Then connect the cable to the unit RS232 port.

Figure 3-1

Download the PC program from the Profort homepage and type code M30Gu8.

Below is shown the connections required in an RS232 cable.

Figure 3-2

3.1 Minimum requirements for the PC

- Windows
- Screen resolution 1024 x 768
- COM-port or USB-port

3.2 Finding COM No.

A PC may have several COM ports, and the assignment of COM No. depends on which COM port is used for the set-up. You therefore have to check which COM No. Windows has assigned to the chosen COM port.

Find the number of the chosen COM port (here undergone with Windows XP):

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1. Select the Start menu on your PC

2. Select Control Panel > System

3. Select the tab Hardware > Device manager

4. Select Ports (COM & LPS) > Communications port or USB-to-Serial Comm. Port

5. Read the number of the COM port. The figure below illustrates that the COM port is 'COM1' when using the communications port, and 'COM3' when using the USB port.

Figure 3-3
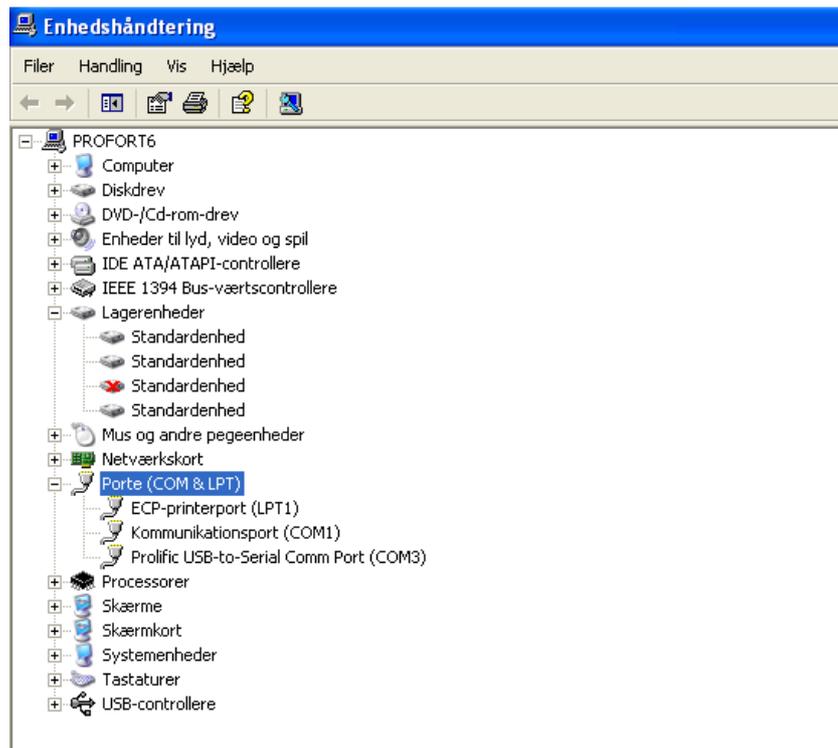
Notice that the next time you mount a cable in the same or another COM port, the assigned COM no. may have changed

If you use a USB cable, you have to use the same slot in the computer each time.

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4 INSTALLATION OF THE PROFORT PC PROGRAM

When the COM number has been identified start the PC program for set-up of the unit.

Installation of Profort PC Program on the computer:

1. Insert CD-ROM in the PC or download it from www.profort.com

2. The program starts with a Welcome Centre, where it is possible to choose to see manuals or to install the program. Press the ' Install ' to begin the installation of the Profort PC application.

Figure 4-1

3. Select the language to be used during installation

4. The installation program suggests closing all other programs on the computer while installing.

5. Windows suggests a location for installing the set-up program. To change this location, press 'Browse' (cf. Figure 4-2) and select the required folder.

Figure 4-2

6. Press ' Next > ' and choose whether to perform additional tasks. Press ' Next > ' again.

7. Check that the settings are satisfactory and press the 'install' to begin installation. The installation runs automatically and takes about 20 sec.

8. Select whether Profort PC application is to open at the end of installation by setting a check mark in the 'Launch Profort' and finish installing Profort PC application by clicking 'Finish'.

9. Figure 4-3 is displayed when the application is started the first time if the Profort PC application has been installed previously – for example in a previous version.

Figure 4-3

Select 'Yes' if the existing information such as set-up and log has to be transferred to the new installation.

Select 'No' if you want to start with a new, blank application. Note that the previous data will be permanently deleted.

10. Enter the product key – the window of the product key opens automatically.

The product key is written in front of the cover of the CD or see it on www.profort.com.

11. The program is ready and you can now set the units up for use.

The program opens automatically after entering the product key. Start to define the settings and continue with the set-up for the rest. Do the Quick Setup or select Basic Setup if you have The Profort Basic PC Program.

5 SET-UP ON PC

The description of set-up on the PC is based on the extended set-up with Basis Setup. It is not all areas or points that can be set up in Quick Setup. In the chapter about Quick Setup you can see on the tabs which functions are available here.

Each tab is named with a capital letter: An 'M' symbolizes tab Modem, 'I' indicates tab Inputs, 'O' stands for the tab Outputs, C stands for the tab Calendar, 'W' represents the Wireless tab, and 'V' marks the tab More (Various).

Headings (highlighted with bold) at each tab are also numbered with a digit, e.g. the area for the information of the device is numbered with M1 under the heading 'Central unit', and 'Setup' = M3 as in the following figure. The points in an area can similarly be referenced to using a lowercase letter.

Example
The function 'Send message to receivers on connect/disconnect' has the reference M3-a. It can therefore be found on the tab Modem (M) under 'Setup' (3) as the first point (a). As another example the timer is numbered C3. It is thus on the tab 'Calendar' in the area of number three.

Figure 5-1

Tab Modem (M)

5.1 **Start set-up**

Make sure that the device is either connected to the RS 232 port or the USB connector on your pc or that it is set up for the Internet (see Chapter 110.7 for help to the Internet).

Open Profort PC program.

Depending on the program used, Profort PC Program opens with either a main page for Basis Setup or a window for Quick Setup.

The first time you use the program, you must begin by filling in the settings of the application as described in Chapter 5.2. Continue to define the unit as described in Chapter 5.3-5.9.

The settings are stored in the flash memory of the unit and kept, in case of power failure.

5.2 **Settings**

'Options' applies to all entities that are created in the Profort PC application. If you previously have created units in the program or converted the data from a previous version; you only need to fill in the settings if there are any changes. All changes will take effect on all devices created in the program.

After entering the product key the Quick Setup opens directly with a window for the settings (Figure 5-3), while Basis Setup displays a main page, as in Figure 5-4.

Enter the settings of the unit, in the Basis Setup choose: Project > Options at the top bar in the left corner of the window.

A window as shown in Figure 5-2 opens.

Figure 5-2

Figure 5-3

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Fill in the settings

Pin code: If the computer is to operate through a GSM modem, you shall enter the PIN code of the Modem SIM card. Otherwise the field shall be empty.

Modem/serial com.port: Enter the number of the COM port to which the unit is connected. Only free COM ports are shown. – Do you use the Internet to transfer your set-up, it is not necessary to specify the COM port (remember that the GSM device must then be set up to the Internet with text messages (see Chapter 12)).

Connection via the Internet: If you want the opportunity to handle the unit online, the 'Connection via the Internet' shall be marked. In the dropdown menu you must choose which web domain to use.

Furthermore, the unit shall have activated and set up the wanted access to the Internet. See how in the section GPRS in Chapter 5.9, if you use the PC Program, or in Chapter 12 Internet if you use text messages.

Username on the Internet: Enter a user name if you wish to have access to the Internet. This may consist of letters and numbers and can contain up to 16 characters. Symbols, special characters and spaces are not allowed.

The user name is to be used when you log onto www.profort.com

State com.port: This feature is only active in Professional Profort PC Program

Language: Select language

Schedule daily backup: This feature is only active in Professional Profort PC Program

Finish by pressing 'Ok'.

Down to the left in the display is shown whether the connection to the unit has been made.

NB! If 'No connection' is shown; a wrong COM port has been shown, the unit has been turned off, or the RS232 cable has a defect.

If the text 'Connection to [product name] is now shown, you shall check whether the correct COM port has been selected.

5.3 Main page

The main page is displayed only by set-up with Basis Setup.

The unit shall be defined on the main page in the square in the upper left corner (Figure 5-4). You may create several units in the Profort PC Program in case you have to handle more at the same time.

Here a unit named "Demo" is created:

Figure 5-4
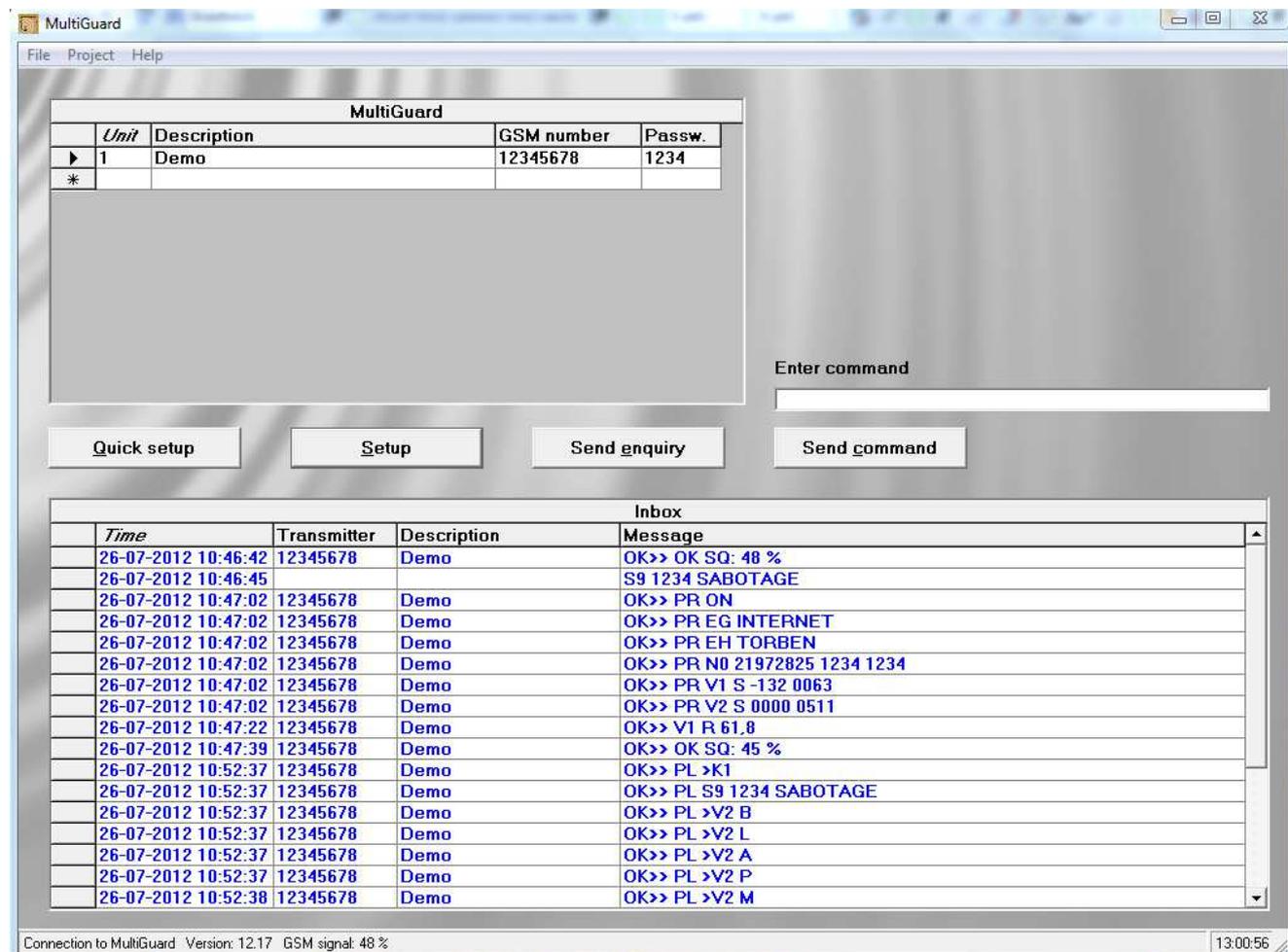
Create the unit in the upper pane of the window:

1. Enter a number of free choices for the unit.

2. Attach a description of the unit (max. 50 characters). The text is shown in the inbox (list of received messages) and the outbox (list of sent messages).

3. Enter the GSM No. of the unit (if any). The GSM No. is the same as the telephone number of the SIM card.

4. Mark the unit by clicking in the field to the left of the unit no. An arrow is shown in the field and the line is highlighted. The set-up is only valid for the unit indicated.

The further set-up of the highlighted unit takes place in six steps: Modem (Chapter 5.4), Input (Chapter 5.5), Output (Chapter 5.6), Calendar (Chapter 5.7), Wireless (Chapter 5.8) and More (Chapter 5.9).

Press 'Setup' and continue in the new window. Or choose the Quick Setup by pressing 'Quick Setup'.

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5.4 `Tab: Modem (M)`

The Modem tab is only to be completed in case the unit has been mounted with a GSM modem (if necessary see specifications in Chapter 1.1).

Central Unit (M1)
Create the identification information of the unit.

Present password: At start-up, the default unit password is 1234.
The PIN code of the SIM card shall always be 1234 or deactivated in the telephone the first time the unit is installed or a new SIM card is mounted.

If you have lost the password, do as follows:

- Remove the power from the unit, including possible back-up battery
- Insert the SIM card in a mobile phone and change the PIN code to `1234.` (If a PIN code has been activated in the mobile phone, a PUK code may be necessary).
- Mount the SIM card in the unit and connect the power.

The unit may now be coded by text message with password: 1234.

GSM Number: The SIM card telephone number is indicated here. It is an optional possibility, but a necessity if the watch function is to be used (e.g. in connection with logging of climate data).

New password: Enter a new four digit password. May only contain digits - not letters. The SIM card PIN code will then also be changed.

You may also choose to deactivate the password so that it is no longer used: Deactivate the SIM card PIN code in your mobile phone and insert it in the unit again. You may want to look in the mobile phone manual for help with deactivation.

ID: Here, a possible ID is entered for the unit, consisting of digits or letters (max. 32 characters). The ID will accompany all alarms.

If the unit is to send alarms with SIA-IP, the ID number of the central control shall be used as ID (if needed, see Types of alarm below).

NB! The password is used to be able to send commands to the unit. The ID follows the alarm from the unit. If this field is not filled in, the ID will be the same as the password.

Receivers (M2)
Telephone number: A total of 25 telephone numbers may be stored in the unit. They may receive alarms and/or be approved to operate in the system exclusively.

A telephone number can be of max. 15 digits. Country code is not necessary. If you wish to use it, you shall enter +'country code', not 00'country code'.

Types of alarm: Alarms may be received either as 'SMS', 'Voice', 'DTMF', email or 'SIA-IP'.

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When 'Voice' is chosen, you shall record a message for the alarm (see Chapter 13). (Voice message is only available for units 5-7.)

With DTMF, the modem calls a control centre, for example, and plays a tone sequence.

Is it a GSM unit and do you wish to receive the alarm as an email, then indicate the number which your telephone operator uses for emails, e.g. 200=TDC or TDC affiliates (this works in Denmark). Do you use another phone service provider, contact them for help. By marking the email option a new field for the address will appear. The email address must not exceed 48 characters.

If the unit has a LAN interface alarms can only be sent as emails. When *email* is pressed, 999 will appear in place of the phone number. Indicate then the preferred email address in the email space.

If you want the alarm dispatched as a SIA IP protocol for a control centre, this shall be indicated at receiver 1. The IP number and port number of the Centre shall be indicated in the field for telephone number. The two numbers shall be separated by a colon. Do not use spaces, and full stops in the IP number shall be maintained.
In order for the control centre to recognize the unit, you get an ID number to be defined as the ID of the GSM unit (ID, see p. 27).
It is a prerequisite that an agreement has been made with the control centre, who will also give information on relevant numbers.

If several types of alarms are wanted, for example both text messages and voice message, it is necessary to create the same number twice.

The receiver may acknowledge alarms with voice message or DTMF tones with #. If a receiver acknowledges, the alarm sequence stops and the following receivers on the list are not disturbed. Without acknowledgement, the alarm sequence continues to the end of the list of receivers.

Approve: Indicates which numbers are allowed to change the set-up or for example operate relays. If one or more telephone numbers are marked in the field 'Approve', the unit will only accept SMS and calls from these numbers.

Only one choice of either 'approve' or 'type of alarm' per line can be approved.

If thereafter the approval shall be revoked, this takes place by deleting the receiver in question.

If no numbers are created with approval, everybody may contact the unit.

NB! In case of a faulty approved telephone number, this has to be corrected in the set-up. It will be necessary to connect a PC with a cable to contact the unit.

Zone: 'Zone' can be used for dividing the alarms in "areas" with specific receivers. An input (see Chapter 5.5) in a certain zone will only place an alarm with receivers in the same zone. If 'Zone' is omitted, all alarms are sent to all receivers.

Only one zone may be indicated. If the same telephone number is to be called in case of alarm from, for example, two zones, the actual telephone number shall be created twice.

If 'Zone' is blank, alarms are received from all zones. System alarms are attached to zone 0 by default.

Send: In case of changes in the set-up, the program automatically marks 'Send'. Thus, information on updating of the unit is sent, when the set-up is finished by pressing the button 'Send/Save'.

Setup (M3)

Send message to receiver when connect/disconnect (M3-a): Message is sent to receivers in zone blank when the unit is disconnected and connected. Optional.

Number of seconds before voice message/DTMF tones are sent: Number of seconds that the unit shall wait before it sends a voice message or DTMF tones. This delay secures that the alarm is not delivered in a possible answering service. Optional. (Only some units have voice message)

Select possible order of receivers: Receivers are numbered 1-9 and from 10 and up with the letters A-P. The order in the receiver list may be changed, for example 342A. The unit will first send the message to receiver 3, then 4, 2 and 10 (A).

The message will only be sent to the receivers that have been listed in this field.

Send alarm to the user who has latest contacted the unit (M3-d): If the option is selected, the alarms are sent from the beginning of the receiver list as well as to the person who has had the latest contact with the unit.

Choose whether the latest user shall receive the alarms as text message, as voice message, or both as text and voice message (Voice message is only available for units 5-7.)

The function makes it possible for more people to operate the unit and get the relevant messages without being created as receivers. At the same time the users avoid getting alarms when they are not using the unit. At a work place it may for example be different people from day to day who shall activate a unit, and only this person benefits from receiving alarms.

5.5 Tab: Inputs (I)

The table in Chapter 1.1 shows how many inputs your device has.

Digital inputs (I1)

Text when input...:   Instead of default texts, you may create user-defined texts that are shown on change of state on inputs. The text may be defined for opened and for closed state. The following commands may be sent as SMS/ text message (max. 64 characters). The SMS will be sent in case of alarm (when the state of an input is changed).

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If you only want an alarm at 'opened' or 'closed', text is only entered in the field for the wanted function. Furthermore, either 'Text' or 'ID + Text' shall be selected in 'Only send alarm if text has been created' under 'Setup' at the bottom of the tab.

If the unit has not been coded with user-defined texts, standard messages are sent with alarm:

- Sx: Close input x (e.g. x = 0-7 if the device has eight digital inputs, x = zero, if the device has one digital input)
- Bx: Open at input x

Zone: 'Zone' is optional and may be used to organise alarms in up to eight areas. Alarms in zone 1 are for example only sent to receivers in zone 1. (Remember also to indicate the zone in the call list, see Chapter 5.4, Tab: Modem).

If a zone with no corresponding receiver is indicated, no alarm will be sent. Is used where an input only has to control a relay, e.g. a siren.

The eight relay outputs follow the zone, i.e. the eight inputs may be put in certain zones that each operates the corresponding relay output.

The zone organisation takes place by indicating a digit in the zone field. When working with zones, the central unit reacts by distributing all relay inputs on outputs.

NB! The central unit distributes all inputs in zones, i.e. relay 0 is zone 0, relay 1 is zone 1, etc. This means that you cannot move the relays around (see Figure 5-6).

Filter: If 'Filter' has been selected, the alarm will only be sent where the change of state has been stable during the filter time. Superfluous states lasting only an insignificant number of sec. are discarded and will not produce an alarm.

Is used e.g. when a float in a pump well is settling down so that only one alarm is sent.

'Filter' cannot be used together with 'Wait'.

Wait: If you want the unit to wait half a minute before releasing an alarm, you shall mark 'Wait'. Personnel may then, for example, be able to get out of an alarm area after connection.

Send: See 'Send' page 29.

Analogue ports (I2)
(Unit 1 only has a built-in temperature sensor and not a dedicated analogue input).

The unit can read analogue values on the analogue inputs (e.g. Ain1). The outputs can be controlled as a reaction on the reading. They can be attached to technical equipment for measuring of an exact value, e.g. temperature.

Type: Measurement equipment is chosen (0-10 V, 0/4-20 mA, PT 100, Profort 007995). Unit 1 does not have an analogue input but instead a built-in temperature sensor. Therefore it must always be set to Profort 007995. Is pre-programmed from the factory.

If the type field is not completed, the analogue inputs work as digital.

Scale min.:
+
Scale max

For 0-10 V and 0/4-20 mA you define yourself the wanted values for Volt and Milliampere (from -999 to +999). Decimal places are not allowed.

The values for the other measuring equipment are indicated with fixed intervals that may, however, be changed.

Example

The values for 0 V and 10 V are to be defined. 'min.' corresponds to 0 V, and 'max.' to 10 V (default). You can e.g. define that -20°C corresponds to 0 V and 60°C to 10 V.

Point 1:
+
Point 2

Define Point 1 and/or Point 2 as limits for allowed values. If the limit values are passed, an alarm is sent.

Set e.g. Point 1 to 0°C and Point 2 to 30°C. If the temperature rises to above or falls below 0°C or above or below 30°C, an alarm is released with either Low, Medium or High text (see below).

Low, Medium and High text: Low text is sent when e.g. the temperature falls below the value defined in Point 1. Cf. the example above when the temperature falls below freezing. Medium text is the alarm when the temperature rises above the value in Point 1, e.g. above 0°C, or it falls below the value in Point 2, e.g. below 30°C.

High text indicates that the value has risen above the indication in Point 2, e.g. that the temperature is above 30°C.

The text in the fields can max. be of 64 characters.

If, in the meantime, you wish to be informed of a measurement, e.g. a temperature in a room, you send a request to the unit via SMS text with the command `V1 R` to ask for input 1, `V2 R` to ask for input 2, etc..

S/F in %:

Indicates a maximum allowed deviation at measurement. Alarms at deviation of the interval. The allowed deviation is indicated in percentage by the scale. It needs to be at least 0,5 %. Note a number between 0,5 and 9,9. A positive number alarms at increase while a negative one alarms at decrease in the measurement. X=0,5,..-9,9.

Setup (I3)

Input 0 is used for connecting/disconnecting: Select how to change the state of an input. Either 'Level' (level control) where closed is disconnected or 'Pulse' (pulse control). When blank, input 0 functions as normal input.

Input 1 is used as counting: If you wish to use input 1 as counter you shall mark whether to count pulses or minutes. In the field at input 1, a limit value may be defined, e.g. 500 in closed text. The unit then automatically sends an SMS and resets when the limit value has been reached.

When blank, input 1 functions as a normal input.

Filter time: Indicates variable filter time for ports. Under 'Digital inputs' (see previous) is marked which inputs that need the given filter time. Choose from 10 sec. up to 64 hours. Inputs 2 and 3 can be used as pulse counter if the boxes are ticked.

Only send the alarm if text is entered: If text has been created on inputs (opened and/or closed) and wireless detectors, an alarm is sent (wireless detectors only with unit 3+7). In case of blank text fields, alarm is discarded.

In case of 'ID + Text', state, ID and text is sent. In case of 'Text' only text is sent. The alarm text may be adapted to interface to pager systems or CCTV via the serial port.

Only send alarm every 15 minutes: Mark the field if you only want to receive one alarm of the same kind each 15 minutes.

If input 1 for example alternates between closed and open, the unit will send an alarm when the input closes and one when it opens. The unit will then first send an alarm again after 15 minutes if input 1 closes or opens.

The function applies to alarms of the same kind. This means that e.g. an alarm, when input 2 is opened, starts its own time interval of 15 minutes.

This function is for example valuable when a PIR sensor is mounted to the device.

Send different voice messages on open and close: If so marked, a voice message can be sent in three seconds when the input is opened and another in three seconds when the input is closed. In case of a blank field, the same voice message is sent for opened and closed state. (Voice message is only available for units 5-7.)

Activate digital inputs: The inputs shall be set as either GND or 24 VDC mode. Units 1B-3 only have GND. In GND mode, the input is activated by connection to 0 VDC (GND), and the closed state is achieved. If the connection is removed, an open state is reached. In 24 VDC mode, the input is activated by connection to 24 VDC, and the closed state is achieved. If the connection is removed, an open state is reached.

5.5.1 Commands in the text field

It is possible to enter one or more commands in the text field for digital and analog inputs. By this, both a text message can be sent and a command executed when the state of the input is changed.

- Commands in the front of the text field carries out the command, also when the unit is disconnected. If commands are put last in the text field, the command will not be carried out in disconnected state.

- In case of more commands, these are separated by semicolons.

- Commands start with '<' and end with '>'.

Example of a command in a text field

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Enter, for example, the command `<S1;S2;S3>` in order to close relays 1, 2 and 3.

Example 5-2

In Example 5-2, the unit will send an alarm with the phrase "ALARM" when input 0 is opened. The command '`<S1;S2;S3>`' in the end of the text field furthermore causes the unit to close output one, two and three, and that an alarm is sent only when the unit is connected.

Example of a duty roster

The file inputs may also be used to control a duty roster. In the receiver file the call list itself is first created for the duty roster (cf. Chapter 5.4 Tab: Modem):

Example 5-3

If a person is to receive both an SMS text and a voice message, the same telephone number is created twice in the call list, e.g. so Peter has position 1+2 (+4511111111), Jens position 3+4 (+4522222222) and Hans position 5+6 (+4533333333).

The order of the call list means that the alarm is sent to Peter, first as SMS and then as voice message. Then to Jens as SMS followed by a voice message, and finally to Hans as SMS and voice message.

Day 1, Peter and Hans are on duty. Day 2, Jens and Hans are on duty. Day 3, only Peter is on duty. The following is written in the tab inputs:
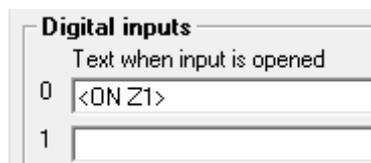
Example 5-4

When input 0 closes, alarms will hereafter only be sent to receiver 1+2 and 5+6 (Peter and Hans). By closing input 1, alarm will be sent to receiver 3+4 and 5+6 (Jens and Hans). By closing input 2, alarm is sent to receiver 1+2 (Peter).

The last closed input is valid. If e.g. first input 1 and then input 2 are closed, alarm is then sent to no. 1+2 until a closure takes place at another input.

Example of a zone connection

To connect a single zone following command is sent to the device:
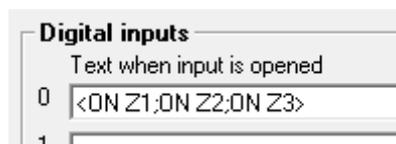
Example 5-1

In Example 5-1, zone 1 is connected when input 0 is opened.

In order to connect more zones at one time, the zones in question are entered, separated by semicolon:

Example 5-2

In Example 5-2, the zones 1 to 3 are connected when input 0 is opened. It is necessary to repeat 'ON' before each zone. A total of seven zones (Z0-Z7) may be connected.

5.6 `Tab: Outputs (O)`

The table in Chapter 1.1 shows how many and which outputs your device has.

Output relays may be controlled or activated manually or at change of state on the inputs.

The outputs are as default deactivated. They may be automatically activated in several ways (the example shows a device with four outputs):

1. From 10 sec. to 15 min. or constantly. Output 0-3 follow zone 0-3.
2. Output follows input. Output 0-3 follow input 0-3 including Ain0-Ain3, but only for inputs where texts have been created. NB: This set-up rules out 'show connection/disconnection'.
3. Output shows connection/disconnection. Output 0-3 show connection and disconnection in zone 0-3.

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4. Combined alarm and connection/disconnection. Output 0-1 follow zone 0-1. Output 2-3 show connection and disconnection in zone 0-1.

5. Command in the text box on an entry, for example `TEXT <S3>` closes output 3 on alarm

Relay outputs (O1)

Opened: Indicates normal state of relays. If outputs are to close by activation of alarm, 'Opened' is marked. Outputs will then be opened at start-up.

Closed: Indicates normal state of relays. If outputs are to open by activation of alarm, 'Closed' is marked. Outputs will then be closed at start-up.

Send: See 'Send' page 29.

Analog output (O2): Enter a value for the voltage at the output (0-10 V). (Only unit 5 has an analog output).

Setup (O3)

Activate relay output on alarms: Indicates whether output shall activate by alarm and for how long. 10 sec., 20 sec., 40 sec., 1 min., 2 min., 4 min. 8 min., 15 min., infinite, reflects inputs. 'Reflects inputs' means that the outputs reflect the corresponding inputs if a text has been created. A blank field indicates that the outputs do not activate.

If the alarm comes from an input or wireless detector in zone 0, output 0 is activated; zone 1 activates output 1, etc.

Figure 5-5 shows how the outputs follow the inputs when the device contains multiple outputs. In case of text for both analog and digital inputs, the analog inputs will have priority to draw outputs one and two.

Figure 5-5
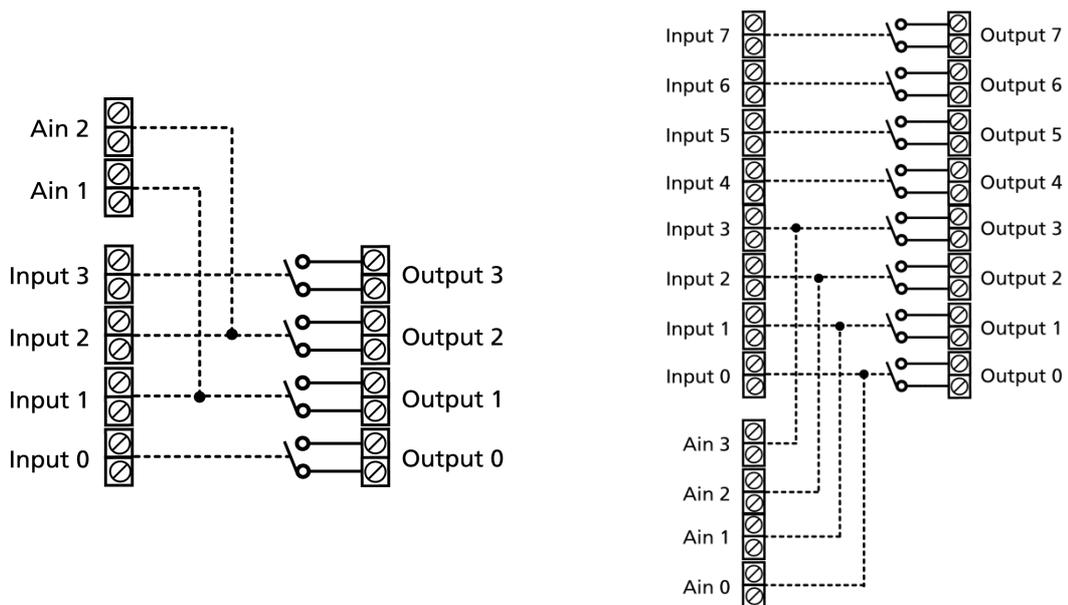
Relay outputs reflect connected/disconnected: If so marked, the outputs are closed when the unit is connected and open when the unit is disconnected. If this field has not been completed, the relay works as normal.

If the outputs are to be closed in disconnected state, 'Closed' is to be marked in the box 'Outputs'.

NB! If the outputs are defined to display both alarms and disconnected/connected state the distribution is done by this: outputs 0-3 are meant for alarms from zones 0-3, and outputs 4-7 are meant for showing disconnection/connection of zone 0-3. See examples at Figure 5-6

Figure 5-6
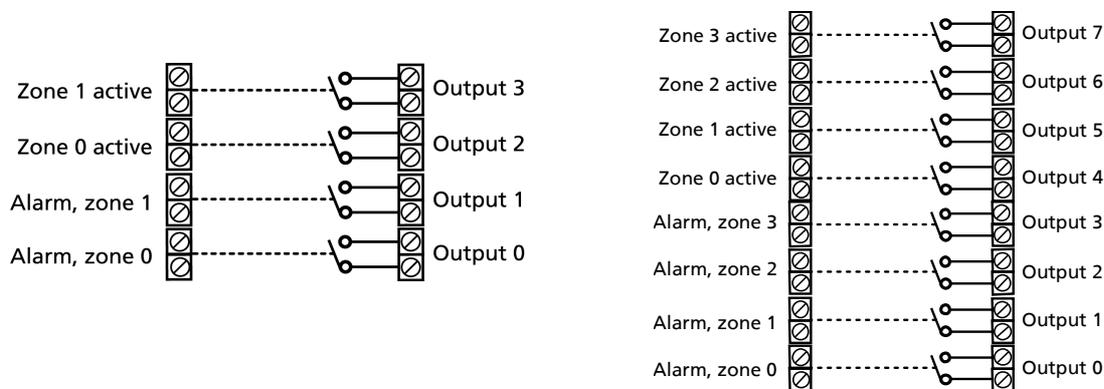
5.7 Tab: Calendar (C)

Calendar is not included in Quick Setup.

Calendar (C1)

It is possible to create 36 activities. A connection and a disconnection count as two activities. If you replace an old activity with a new one, the program will delete the old activity before it creates the new.

Day   Indicate time for execution of command:
                Daily: all weekdays
                Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday: specific weekday
                Date: specific date, select from calendar window or type in date, e.g. June 23, 2012 = '230612'
                'blank': activity deleted

Time   Hour for execution of command, e.g. 9.30 pm = 0930

Command   Command for execution on the chosen hour, e.g. 'ON', 'OFF', 'S0', 'B0'

Automatic connect/disconnect (C2)

Fill in a time for automatic disconnection and connection of the unit. If only automatic connection is wanted, 'Disconnect' is not filled in. To be indicated with HHMM (HH = hours / MM = minutes, e.g. 2015.

Timer (C3)

Interval: Choose between 'Weekly', 'daily', ' No. of 15 minutes' and 'No. of minutes' for how often the timer shall activate. Or mark the blank field to deactivate.

As default, the timer is programmed to continue till you stop it. This may take place by selecting the blank field as interval or by means of the command Tx (x = 0-9). T + zero stops the timer while 1-9 indicates the no. of times that the timer shall activate, e.g. it starts twice at T2. Use the command TU if the timer shall again run indefinitely (until deactivation).

The command may be sent from the field 'Send command' on the main page, via text on an input, with an SMS text or in-built macro.

Time: Indicates the time of activation of the timer. At 'Weekly' (always Wednesday) and 'Daily' is stated the time with HHMM. At 'No. of 15 minutes' is indicated the number of 15 minutes between activations, e.g. 0004 for each hour. 'Minutes' is stated with no. of minutes between activation, e.g. 0010 for each 10 minutes.

Commands: Enter possible commands for the unit to carry out when the timer activates.

If you enter e.g. MA D1;MA A1 the unit will send a status update for digital input 1 (MA D1) as well as a status update for analog input 1 (MA A1) when the timer activates.

If the command field is empty when the timer is connected, the unit will send status messages on the state of the inputs.

Status messages report from the analog and digital inputs that are text defined. May show closed or opened state, an analog value or number of pulses. The unit will also send a status message on connection of the unit.

If a status message is sent from an input with a command in the text field, the unit will also carry out the command in question.

5.8 Tab: Wireless (W)

Only applies to units which contain features for wireless – units 6, 7 and 8. Wireless is not included in Quick Setup.

In the tab Wireless, the set-up concerns the wireless detectors. This goes for i.e. the wanted texts and a series of other functions. If the detector is a temperature or humidity meter, further specification is filled in by pressing the button 'Analog', see Figure 5-7.

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Wireless (W1)

Detector No.: The six-digit serial number of the detector.

Text when detector is activated: Text to be transferred by alarm and shown in the log. (NB: Compulsory when logging data). This may be e.g. name or title of the object. The text can be of max. 64 characters.

Zone: It may be indicated which zone (0-7) the detector shall belong to. Remember in this case to indicate the zone in the receiver list (Chapter 5.4 Tab: Modem).

Personal alarm: A personal alarm may via attachment to a zone activate an output. If you e.g. create a personal alarm in zone 2, output 2 will be activated by assistance-pressure, while output 3 starts an attack pressure cf. Table below.

Figure 5-7

Table 1

Personal alarm belonging to	Assistance (short pressure)	Attack (Long pressure)	Activates output
Zone 0	*	*	0
Zone 1	*	*	1
Zone 2	*		2
		*	3
Zone 3	*	*	3
Zone 4	*		4
		*	5
Zone 5	*	*	5
Zone 6	*		6
		*	7
Zone 7	*	*	7

Lev.: Here, the sensitivity of a seismic detector is adjusted. The interval goes from zero, which is not activated, to five or blank, which is the highest sensitivity. Default is five.

Wait: When marking the field, the unit will wait for 30 seconds before an alarm is forwarded. This makes it possible to disconnect the unit before the alarm is released.

When connecting, it similarly takes half a minute before the alarm can be released.

Analog: When you press the button, a new window turns up for set-up:

Type: Select type of sensor

Action: Select Alarm/Only log

Ok: Select normal interval

Alarm text: Text at alarm

Ok text: Text at normal state

NB: If you wish to log data, the unit telephone number or ID number shall be defined so that the unit can get the time from the network, see Chapter 5.4.

Setup (W2)
Only send the alarm if text is entered:

Blank: Alarm is sent from all available detectors with detector number.

Text: Alarm consisting of text is only sent from detectors with text attached.

ID + text: Alarm containing text, ID and detector number is only sent from detectors with text attached.

The alarm text may be adapted to interface to pager systems or CCTV via the serial port.

Detector supervision: Detectors send an ok signal with short intervals to the unit. Thus possible faulty detectors are discovered. In case of blank, detectors are not monitored.

Battery low warning: If you mark this field, the unit will receive a warning when the battery in the detector should be replaced. The alarm is shown in the display and saved in the log, but is not sent as text or voice message.

If this field is not marked, the battery is not monitored.

Only send wireless alarm...: If you use GSM, you may indicate whether wireless detectors shall send alarms each or each 15 minutes. If the field is blank, the unit will send an alarm each minute, if the field has been marked, this will take place each 15 minutes.

If you do not use GSM/LAN, the unit will receive an alarm each 6 seconds. This time interval cannot be changed.

Sound on alarm from wireless detector: The unit will give a sound signal at alarm. There is no sound signal with blank. Send: See 'Send' page 29.

Connect/Disconnect (W3)

Connect: Select, if required, connection on zone (0-7). If zone is not filled in, the connection is valid for all zones.
Remember, if required, to activate 'Send message to receivers on disconnection/connection ' in tab 'Modem'.

Disconnect: Select, if required, zone (0-7). If zone is not filled in, the disconnection is valid for all areas.
Remember also to activate 'Send message to receivers on disconnection/connection' in tab 'Modem'.

Connect after 8 minutes status (changes): When connecting, the unit sends a status of the detectors after 8 minutes. The unit compares the number 'now' with the number at the time when the unit was last disconnected. The purpose is to secure that the unit registers 'the same' detectors after having been disconnected. (Only applies to units which contain features for wireless detectors).

Connect after 8 minutes status (active): When connecting, the unit sends a status of the detectors after 8 minutes. Shows which detectors are active. The purpose is to see which detectors, the unit may see, and which have possibly become defective during the disconnection period. (Only applies to units which contain features for wireless detectors).

Display (W4)

Enter a separate user password, if required. The user password (four digits) is used to log on from the display. (It only works on devices with display).

If 1234 is selected as user password, you only have to press OK on the display to log in. If another password than 1234 is selected, this password always shall be entered before pressing OK.

The user password allows limited access to the system. With a user password it is only possible to operate a part of the unit display menu while the password of the unit gives full access. Thereby the unit is protected against unauthorised use.

5.8.1   Command execution in text field

It is also possible to enter one or more commands in the text field for detectors. When activating the detector in question, an alarm will be sent, while the command is carried out. As for commands in the text field for inputs:

- Commands in the front of the text field carries out the command, also when the unit is disconnected. If commands are put last in the text field, the command will not be carried out when disconnecting.
- In case of more commands, these are separated by semicolons.
- Commands start with '<' and end with '>'. E.g.: `<S1;S2;S3>` to close relays 1, 2 and 3.

Figure 5-7

The command N1 replaces receiver no. 1 with the telephone number defined in the text field; here 20101010.

5.9 Tab: More (V)

Setup (V1)

Return command: If marked, an acknowledgement for a sent command is sent to the sender. If the field is not marked, there is no acknowledgement.

The unit acknowledges with *OK>> + sent command* when it knows the commands, and *??>> + sent command* when the unit does not recognize the sent command.

The acknowledgement is delivered to the sender.

Send also alarm via cable/Internet: If marked, an alarm is sent via cable or the Internet

Send also sabotage alarm when unit is disconnected: When so marked, a sabotage alarm is sent, also in case the unit is disconnected. If blank, the sabotage alarm is not sent in disconnected state.

Send power alarm: When marking "Immediately' the text 'Power alarm' is sent right away when the external power supply fails. Hereafter the unit runs for 30 minutes where after it closes down. If the supply returns within 30 minutes the unit will send the default text 'Power Ok'

If '30 minutes' is marked, the unit will run for 30 minutes while monitoring whether the supply returns. If this does not happen, the unit sends a power alarm and closes down. When the supply returns, the standard text 'Power Ok' will be sent.

Power alarm requires the unit to be mounted with a rechargeable battery.

Units 1, 3, 4 and 8 do not close down, but continue till the battery is empty.

Activate siren on alarms: You can choose if and for how long the unit shall emit a sound signal on alarm. There is no sound signal with blank. Choose between 10 sec., 20 sec., 40 sec., 1 min., 2 min., 4 min., and 8 min. (Unit 7 only).

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Create clock in unit: The time in the PC will be transferred to the unit. A clock is used for time
stamping the log, automatic connection/disconnection and sending of status
messages. It is necessary to set the clock, if you wish to log data.

Indicate the unit GSM number/telephone number under Tab: Modem, if the unit shall
automatically update the time once a week.

Even if no battery is used as backup, the power to the unit may be turned off without
losing the time. An internal battery saves the time for half an hour (Only valid for
unit 7).

Set up new text for default texts (V2)

Text: Enter, if required, a new text instead of the different default texts.

Zone: Select, if required, a zone (0-7) if the text is to be sent from this specific zone to a
specific telephone no.
Remember to indicate the zone in the call list (Tab: Inputs).

GPRS (V3)

Phone service provider: Indicate the Internet access of the unit. Either choose not to use the Internet
('GPRS not used') or activate access by marking the service provider of your
SIM card. If your service provider is not on the list, choose: "Not listed".

Be aware that the fields regarding the Internet under Files → Settings also have to be completed
(see page 25, if required).

APN, User and Password: APN is short for Access Point Name and indicates how the unit obtains
connection to the Internet via your telephone operator.

Some telephone operators furthermore require user name and password to create the
connection.

If you choose a service provider from the list, the program will fill in the fields
automatically.

Contact your telephone operator to obtain APN, user name and password.

Macros (V4)

Macro name: A macro can collect one or more commands into one 'super command'. Here you
enter a name of your choice of up to 16 characters, e.g. 'Start pump'. If the unit
receives an SMS with this text, the instructions entered in the field 'Command' are
carried out. It is thus not necessary to remember and enter the normal command.

You may create a total of 10 macros (M0-M9). They can be activated through the
chosen name in a text message or by a call and DTMF tones.

Macros are accepted without password.

Commands: Here you indicate the instruction/command or instructions/commands (max. 48 characters) to be attached to the macro name chosen. More commands are separated by semicolon. For example P0;T1 to pulse relay 0 and activate the timer once.

Have you named a macro, but not inserted a command in the command field, the IR recording function will be activated when you press 'Save/Send'. Hereafter, the red LED light will flash quickly for 30 sec. or turn off when a valid IR code has been received.

IR: Units with build-in IR interface can record (only unit 1 + 2) and play (only unit 1+2+7) infrared signals from e.g. a remote control. In the field 'IR' there must be an infrared code from e.g. a remote control. See more about recording or downloading of IR codes in Chapter 15.

Get infrared codes from archive: Have IR codes been downloaded or recorded and then archived, they can be found here. See more about archiving of IR codes in Chapter 15.

Send infrared codes to archive: Send IR codes, recorded in the Profort PC Program, to the archive. Press the button and type in the manufacturer and unit of the object that fit the IR codes, e.g. Bosch EPH 6.0 heat pump.

Send/Save: After finishing the set-up, the information is saved on the PC by pressing the button
   Or   'Send/Save' in Basic Setup or 'Execute' in Quick Setup below in the window. Basic
Execute   Setup transfers everything that is marked with 'Send' – the Profort PC Program automatically marks the 'Send' when there is made a change. The Quick Setup transfers the entire set-up to the central unit.

Remember that the unit has to have a connection, either serial, via modem or over the Internet. In the bottom left corner of the window shall read: 'connection to <product name>'

During the transfer of the set-up, the unit 'beeps' three times if it has a sound source.

If the transfer is not successful, this message is shown: "Commands not sent". Please try again.

In unit 7 the macro 0-4 can be used for IR codes and macro 5-9 for command execution.

6 SET-UP VIA MASTERVIEW

**6 SET-UP VIA MASTERVIEW**   Ver. 5.15

7 SET-UP VIA DISPLAY

(This chapter only applies to units with display).

The display works as a touch screen. To begin with you press the MENU button on the screen and you are directed to a keypad on which you need to type a password. In order to return to the standby image, press the ESC (short for ESCAPE) button.

The display menus are listed as follows:

Figure 7-1

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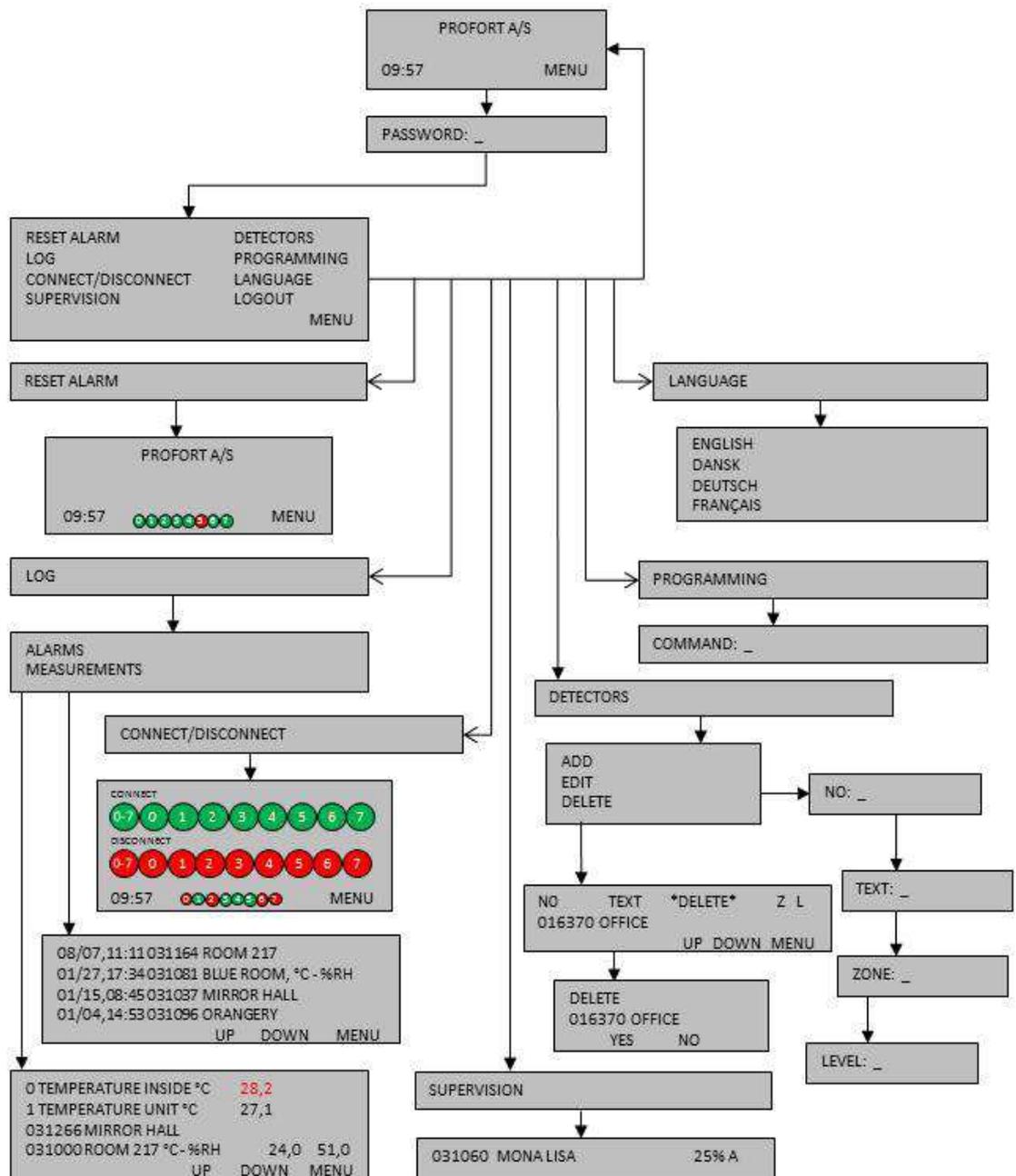
From the display it is possible to manage e.g. the following:
- Access to the unit (Chapter 7.1)
- Add a name on the standby image (Chapter 7.2)
- Setting up the unit (Chapter 7.3)
- Resetting alarms (Chapter 7.4)
- Connection/disconnection of the whole central unit or of each of the 0-7 zones (see Chapter 10.1)
- Handle detectors and repeaters (Chapter 7.5)
- Monitoring of detectors (Chapter 7.6)
- See the latest 256 events and analog measurements in the log (see Chapter 14)

7.1 `Access to the unit`

In order to gain access to the menus of the display, you have to log in using an access code. The password is 1234 by default.

Log in
1. Press MENU
2. Enter the password of four digits
3. Press ENT (short for ENTER)

   In PASSWORD: _ it is not necessary to enter 1234, as the unit already knows the default access code 1234. Then skip item two and go directly to pressing ENT.

Logout
1. Press MENU
2. Press LOGOUT

Change password
1. Press MENU
2. Press PROGRAMMING
3. Enter `N0 99999999 xxxx` (N+zero, the telephone number of the unit, or if the unit has no SIM card mounted, any digit and new password with four digits)
4. Press ENT and the unit acknowledges by 'beep'ing three times.

User password
In order to limit the access to the display menu list, you may create password number two (user password).

1. Press MENU
2. Press PROGRAMMING
3. Enter `TK xxxx` (x = user password with four digits)
4. Press ENT and the unit acknowledges by 'beep'ing three times.

7.2 `Add name on display`

When the unit is powered, a standby image is shown and after app. 20 sec. four 'beeps' sound. If the front is not on the unit, a red diode may be seen light up as a sign that the unit is connected and ready.

If you want a name on the standby image, for instance the name of the museum in question, it can be added to the display as follows:

1. Press PROGRAMMING
2. In COMMAND, the command `LA` followed by the new text are entered. Always remember a space after a command.
3. Press ENT and the unit acknowledges by 'beep'ing three times.

7.3 `Setup`

The unit may be set up with various commands. See commands under Chapter 9.

1. Select PROGRAMMING
2. In COMMAND: _ use the keypad to enter the desired command
3. Press ENT and the unit acknowledges by 'beep'ing three times.

Example Engage battery check of detector:
1. Press PROGRAMMING
2. In COMMAND: _ enter FE
3. Press ENT and the unit acknowledges by 'beep'ing three times.

7.3.1 Set clock

Set the clock in the unit if you want indications of time or to use functions with time control. The unit may be put off without losing the time. An automatic backup saves the time for half an hour. Also functions without backup battery.

1. Press PROGRAMMING
2. In COMMAND: _ enter as follows: `TM yy/mm/dd,hh:mm:ss`

Example
    `TM 12/06/20,11:00:22`

7.4 `Reset alarm`

An alarm may only be reset when you have logged in with a password.

1. Select RESET ALARM

When resetting an alarm, a possible siren or other alarm equipment, activated by a relay output, is stopped. You may, however, always stop the siren by pressing the clock in the left corner of the screen.

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If you wish to reset an alarm in the display, send command `1234 RS` to the unit.

7.5 `Handling of detectors and repeaters`

From the unit display you may set, edit or delete a detector or repeater via the menu point DETECTORS.

For monitoring of wireless detectors, see Chapter 14 Log.

7.5.1 Set up a detector or repeater

1. Start the detector by placing the battery within.
2. Press DETECTORS in the menu
3. Press ADD
    Activate alarm from the desired detector. Check that the serial number (six digits) of the activated detector is shown in NO. If this is not the case, repeat the procedure.

Enter the information identifying each detector:

4. Enter a possible text in TEXT (max. 57 characters), e.g. a title or location. Text may be deselected by pressing ENT and continuing without writing a text. The page then changes to ZONE.
5. Enter a possible zone (with digits from 0-7). Press ENT to jump to LEVEL.
6. Level is only to be set, if the detector is seismic. The setting is valid for sensitivity and indicated with a digit from 0-5 (0 is lowest and = no sensitivity). If no digit has been noted, the default is five for highest sensitivity.
7. Press ENT to finish set-up of the detector. The central unit acknowledges with three 'beeps', and the information is saved.

7.5.2 Interrupt without updating

Entering of detector information may be interrupted without updating the information.

Wrong digits or letters may be corrected by one of two procedures:

4. Press ESC. You will return to the display menu without updating the information that you were entering.

Or...

5. Go to EDIT where you may edit the detector information.

7.5.3 Edit detector information

Go to EDIT to edit detector information.

1. Press DETECTORS.
2. Press EDIT

3. Choose a detector no. and press it
Use the UP and DOWN buttons to change pages, if there are more pages with detectors.

4. Use the keypad to write a text.

5. A detector may be attached to another zone (a zone with digits from 0-7).
Press ENT to go to LEVEL.

6. Level for sensitivity of a seismic detector may be changed to a higher or lower sensitivity with a digit from 0-5.

7. Press ENT to finish editing. The unit acknowledges with three 'beeps', and the information is updated.

7.5.4 Delete a detector

1. Press DETECTORS in the display menu.
2. Press DELETE
3. Select detector no. Use the UP and DOWN buttons to change page. Press the detector no. The text DELETE NO. YES NO is shown in the display.
4. Press NO to cancel the deletion, or press YES to delete.
5. The unit acknowledges with three 'beeps' and the detector has been deleted.

Notice: Only one detector may be deleted at a time.

If a detector has been deleted by mistake, the information has to be created again.

7.6 `Monitor detectors`

In the menu item SUPERVISION, all wireless detectors may be monitored. Each time the unit receives an OK signal, an alarm or an error message from a detector, the signal strength and a letter code are shown. The display can max. show 6 at a time.

If the unit is set to only send alarm if text has been created, you may only see the text defined detectors. Otherwise, all detectors are shown.

The detector is shown in the display with serial no., text, signal strength in percentage and type of alarm (A, I or O):

A = ordinary alarm

I = installation error

O = OK

Example
```
031060 MONA LISA  25% A
```

The signal strength (in percentage) tells how powerful the signal strength of the detector is.

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8 USE THE COMMANDS

Commands are used to operate and set up the device. Commands can be used for set-up and control through the display of the device, with SMS from a mobile phone, or in the command field at the main page in the Profort PC Program (see Figure 8-1).

Commands are also used to operate the device automatically. It is done by telling the unit what to do, for example upon an alarm from input, see examples in Chapters 5.5.1 and 5.8.1.

Commands with Profort PC Program

Figure 8-1

All commands sent may be seen in the outbox under Files → Outbox:

Figure 8-2

Time	Receiver	Description	Message	Sent
27-05-2010 14:28:17	23717840	mohr vander	1234 N7 31724576 +	☑
27-05-2010 14:28:23	23717840	mohr vander	1234 N8 31724572 +	☑
28-05-2010 12:02:47	23869684	KFA-Mols	0000 A0	☑
28-05-2010 12:02:47	23869684	KFA-Mols	0000 L0 ALARM FRA PIR <UN>	☑
28-05-2010 12:02:47	23869684	KFA-Mols	0000 A1 PIR ALARM	☑
28-05-2010 12:02:47	23869684	KFA-Mols	0000 L1 100	☑
28-05-2010 12:04:09	23869684	KFA-Mols	1234 A0	☑
28-05-2010 12:04:09	23869684	KFA-Mols	1234 L0 ALARM FRA PIR <UN>	☑
28-05-2010 12:04:09	23869684	KFA-Mols	1234 A1 PIR ALARM	☑
28-05-2010 12:04:09	23869684	KFA-Mols	1234 L1 100	☑
28-05-2010 12:05:20	23869684	KFA-Mols	1234 M6 PIR FRA <OF;UF>	☑
28-05-2010 12:05:20	23869684	KFA-Mols	1234 M7 PIR TIL <ON;UF>	☑
28-05-2010 12:06:59	23869684	KFA-Mols	1234 A1 PIR ALARM	☑
28-05-2010 12:06:59	23869684	KFA-Mols	1234 L1 5	☑
28-05-2010 12:06:59	23869684	KFA-Mols	1234 UN	☑
28-05-2010 12:07:43	23869684	KFA-Mols	1234 A1 PIR ALARM	☑
28-05-2010 12:07:43	23869684	KFA-Mols	1234 L1 100	☑
28-05-2010 12:08:03	23869684	KFA-Mols	1234 PIR FRA	☑
28-05-2010 12:08:31	23869684	KFA-Mols	1234 PIR TIL	☑

Ok

Commands with text messages

The unit can also be set up with SMS from a GSM mobile phone if the unit has a GSM modem. The set-up then takes place by means of commands.

An SMS command consists of the following content:

- password of four digits *
- space *

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- command of two characters
- space
- parameter as text

*) may be omitted if the password is deactivated.

NB! Each part of the command must be separated by a space.
The text can be of max. 64 characters. Spaces count as characters.

Example

`1234 A1 PUMP OFF` PIN code (1234) + [space] + command (A1) + [space] + text (PUMP [space] OFF)

The command may be sent by text message to the unit telephone number.

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9 SET-UP WITH (SMS/TEXT MESSAGE) COMMANDS

Note: all commands appear with the password 1234. Replace 1234 with your own password or exclude it, if you have deactivated the password on the SIM card.

All commands can also be used in the PC software command field and in the set-up on the Internet. Just skip the password "1234".

You can find a further description of the features under the explanation of Profort PC Program in Chapter 5. The letter and number in the last column shows to which tab and in which region the content behind the command is described. M1 refers to the tab Modem and area 1.

9.1 Password and id

Phone number of the unit: `1234 N0 xxxxxxxx` (N0 = N + zero)	Defines the phone number of the unit and defines it as N0 (N + zero). xxxxxxxx = the phone number of the unit (the number of the SIM card inside the unit) N0 will be created, regardless if you change the password – see following. Some functions depend on the unit telephone number to be defined.	M1
Password: `1234 N0 xxxxxxxx yyyy` (N0 = N + zero)	Changes existing password to the unit. 1234 is present password, and yyyy = four digits chosen as new password. xxxxxxxx is the unit telephone number and is at the same time defined as such.	M1
ID code: `1234 N0 xxxxxxxx yyyy TEXT` (N0 = N + zero)	Set-up of ID code to the unit. If no ID code has been selected, this is the same as the password. The ID code, here called TEXT, may be digits and letters with max. 32 characters. yyyy = four digits chosen as new password. If you do not want a new one, use the old one (here = 1234). xxxxxxxx is the unit telephone number and is at the same time defined as such.	M1
User password: (Only units with display) `1234 TK xxxx`	Creates user password. xxxx = access code of your choice of four digits.	W4
`1234 TK`	Deletes user password.	

9.2 Receivers

Create receiver: `1234 Nx yyyyyyyy`	Creates alarm receiver no. x to receive alarms as text. x = 1-9 og A-P. yyyyyyyy is the telephone number of the alarm receiver.	M2

	Set-up with (SMS/text message) commands	

	Notice: The code for the first nine receivers is N1 to N9. Receiver 10 to 25 are named NA, NB, NC, etc. through NP.	
`1234 Nx yyyyyyyy #` (Only units with voice messages)	Creates receiver x to receive alarm by voice message. x = 1-9 and A-P. yyyyyyyy is the alarm receiver phone number.	
`1234 Nx yyyyyyyy *`	Creates receiver x to receive alarm by DTMF tones.	
`1234 Nx yyy aaaa@bb.com`	Creates receiver x to receive alarms by email. yyy = the number of your telephone service provider for email service, e.g. 200 = TDC (in Denmark). Contact your service provider for help. aaa@bb.com = email address (max. 48 characters)	

`1234 N1`
`xxx.xxx.xxx.xxx:yyyyy`
`+`
`1234 N0 qqqqqqqq 1234 zzzz`
`(N0 = N + zero)`
	Creates receiver 1 to send alarm as SIA-IP protocol to a control centre. SIA-IP can only be created on receiver 1.
	
	(The first SMS: xxx.xxx.xxx.xxx = IP number of the control centre, yyyyy = port number of the control centre. The two numbers shall be separated by a colon. The second SMS: N0 = N + zero, qqqqqqqq = telephone number of the unit, 1234 = password and new password, zzzz = ID – when using the SIA-IP, ID has to be stated by the PSAP).	

Delete receiver: `1234 Nx`	Deletes alarm receiver x. x = 1-9 and A-P.	
Create receivers in zone: `1234 yx zzzzzzzz`	Creates alarm receiver x to zone y. y = zone 0-7, x = receiver 1-9 and A-P, zzzzzzzz = telephone number. Remember to create zone on input.	M2
Ex.: `1234 34 zzzzzzzz`	Creates alarm receiver 4 to zone 3 = 34.	
`1234 2B zzzzzzzz`	Creates alarm receiver B (11) to zone 2 = 2B.	
Approve telephone no.: `1234 Nx yyyyyyyy +`	Only telephone number yyyyyyyy can contact the unit.. x = 1-9 and A-P for a receiver. More than one receiver can be approved.	M2
Order of numbers: `1234 NR xxx...` Ex.:	Changes the order of numbers in the receiver file (x = 0-9 or A-P). Calls will only be made for the indicated receivers and in the listed order.	M3

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`1234 NR 3421A`	The unit will first send the message to receiver 3, then 4, 2, 1 and 10 (A).	
`1234 NR`	Deletes changed order of numbers in the receiver file. The unit first sends message to receiver no.. 1, then 2, 3, 4, 5, 6, 7, 8, 9 and A, B, C, D…P (default setting).	
Send alarm to latest user: `1234 K1`	Latest user gets alarm by text messages.	M3
`1234 K2`	Latest user gets alarm as voice message. (Applies for units with voice message)	
`1234 K3`	Latest user gets alarm both by text messages and as voice message. (Voice message only applies for units with voice message)	
`1234 K0` (K0 = K + zero)	Deactivates Send alarm to latest user. (Default setting)	

9.3 Inputs

9.3.1 Digital Input

Create digital input

Opened: `1234 Ax TEXT`	Codes the TEXT shown when input x is open. Max. characters are 64 including spaces. E.g. x = 0-7 if the device has eight digital inputs.	I1
`1234 Ax`	Deletes TEXT for input x in open state.	
Closed: `1234 Lx TEXT`	Codes the TEXT shown when input x is closed.	I1
`1234 Lx`	Deletes TEXT for input x in closed/open state.	
Zone: `1234 Ax Zy TEXT`	Creates text on input x (x = 0-7) in zone y (y = 0-7) when input opens.	I1
`1234 Lx Zy TEXT`	Creates text on input x (x = 0-7) in zone y (y = 0-7) when input closes.	
Input for connection/disconnection: (Models with only one digital input can either use the input to connection/disconnection or as counter) `1234 RN`	Sets input 0 (zero) to be used for disconnection/connection of the system (Level). Closed state indicates disconnection.	I3
`1234 RP`	Sets input 0 (zero) to be used for disconnection/connection of the system (Pulse).	
`1234 RF`	Deactivates connection and disconnection on input	

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	0 (zero) to ordinary alarm input. Default setting.	
Create filter and zone: `1234 Ax Xy TEXT`	Creates filter on input x in zone y at 'opening/breaking' x = e.g. 0-7 if the unit has eight inputs y = 0-7	
`1234 Lx Xy TEXT`	Creates filter on input x in zone y at 'closing/joining' x = e.g. 0-7 if the unit has eight inputs y = 0-7	

Input 1-3 as counter

(Models with only one digital input can either use the input to connection/disconnection or as counter)

Pulse count: `1234 C1`	Sets input 1-3 to be used for pulse count. Counter is reset at the same time as this instruction (C1…C3).	I3

`1234 C1 xxxxxx`
 	
`1234 C2 xxxxxx`
 	
`1234 C3 xxxxxx`
	Activates pulse counting. xxxxxx equals a start value between 0 and 999999. Enter e.g. 50, and the count will start at 50 pulses.	

Minute count: `1234 C1 M`	Sets input 1 to be used for minute count.	I3
`1234 C1 M xxxxxx`	Activates count of minutes. xxxxxx equals a start value of 0 and 999999. Enter e.g. 50, and the alarm will go off after 50 minutes.	

Alarm input:
`1234 C2 F`
`1234 C3 F`
	Deactivates pulse or minute count and sets input to ordinary alarm input. Default setting.	I3

Pulse count, limit value and alarm text:
 	
`1234 L1 xxxxxx`
 	
`1234 A1 TEXT`
	When the pulse meter has been created with "UN" a limit value may be set and an alarm sent if the value is exceeded. The counter is reset after alarm.
	
	Sets the alarm limit (xxxxxx = 1-999999).
	Alarm text is sent in case of exceeding the limit.
		I1

9.3.2 Analogue input

Scale: `1234 Vx S yyyy zzzz`	Set up of the scale (yyyy = minimum zzzz = maximum) for 0-10 V and for 0-20 mA. x = e.g. 1-2 if there are two analogue inputs. Min. and max. must be between -999 and 999. Decimal places are not allowed.	I2

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Points for the normal interval: `1234 Vx M yyyy zzzz`	Setting up values for the normal interval (Point 1 and Point 2) on analogue input x. x = e.g. 1-2 if there are two analogue inputs. If the value on the input is greater or smaller than yyyy (Point 1) or greater or smaller than zzzz (Point 2), an alarm is sent. E.g. 0 degrees in yyyy and 30 degrees in zzzz.	
Alarm text: `1234 Vx A TEXT`	Low alarm TEXT on analogue input x is sent when the value becomes lower than the value defined in Point 1/yyyy (`Vx M yyyy zzzz`).	I2
`1234 Vx L TEXT`	Medium alarm TEXT on analogue input x is sent when the value becomes higher than the value defined in Point 1/yyyy or lower than the value in Point 2/zzzz (`Vx M yyyy zzzz`).	
`1234 Vx B TEXT`	High alarm TEXT on analogue input x is sent when the value becomes higher than the value defined in Point 2/zzzz (`Vx M yyyy zzzz`).	
Zone on analogue alarms: `1234 Vx A Zy TEXT`	Low alarm TEXT on analogue input x is sent to zone y when the value becomes lower than the value defined in Point 1. y = 0-7 if the unit has eight inputs.	I2
`1234 Vx L Zy TEXT`	Medium alarm TEXT on analogue input x is sent to zone y when the value becomes higher than the value defined in Point 1 or lower than the value in Point 2. y = 0-7 if the unit has eight inputs.	
`1234 Vx B Zy TEXT`	High alarm TEXT on analogue input x is sent to zone y when the value becomes higher than the value defined in Point 2. y = 0-7 if the unit has eight inputs.	
`1234 Vx Py`	Alarm when percentage deviation in the interval, e.g. x = 0-3 if the unit has two analogue inputs. Y = -99—0,5 (negative number with one decimal at the most) to reach the allowed percentage, a level may have to decrease. And -0,5-99 (positive number with one decimal at the most) to reach the allowed percentage, a level may have to increase.	
Create filter and zone: `1234 Vx A Xy TEXT`　　Low	Creates filter on analogue input x in zone y at low, middle and high level. x = e.g. 0-3 if the unit has four analogue inputs y = 0-7	
`1234 Vx L Xy TEXT`　　Middle		

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`1234 Vx B Xy TEKST` High		

9.3.3 Common for digital and analogue inputs

Filter time: `1234 Fx`	Create filter on input in x time. (x = 1-9 + P-V). 1= 10 sec. (default), 2 = 20 sec., 3 = 30 sec., 4 = 1 min., 5 = 2 min.., 6 = 4 min., 7 = 8 min., 8 = 15 min., 9 = 30 min., P = 1 h(our) , Q = 2 h., R = 4 h., S = 8., h = 16 h., U = 32 h..,V = 64 h.	I3

Voice message/DTMF
(Only for units with voice messages)

Alarm voice message or DTMF: `1234 W1`	Sets the unit to send voice messages with a collective message of six sec. for each input.	I3
`1234 W2`	Sets the unit to be able to send voice messages for both opened and closed state. Three sec. for opened state and three sec. for closed state.	
`1234 Xy`	Indicates number of sec. from the establishment of the telephone connection to the first DTMF tone or voice message is sent. y = 0-9 for number of sec. Default setting = 2. If 0 is used, the unit awaits acknowledgement from the control centre before sending DTMF tone.	M3

Commands in text

Command in text: `1234 Ax TEXT <COMMAND>`	A command after the text is executed only when the device is connected. (Here COMMAND is carried out when input x is opened when the unit is connected.)	I1 + W1
`1234 Ax <COMMAND> TEXT`	Commands placed in front of the text are executed even if the device is disconnected. (Here COMMAND is carried out when input x is opened when the device is connected as well as when it is disconnected.	
Examples: `1234 A1 <MA> ALARM`	Sends the status of inputs with text when input 1 is opened. Command precedes the alarm text and is performed both when the device is connected and disconnected.	I1 + W1

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`1234 A1 GENTAG <TP T 0001>`	Sends the alarm 'repeat' when input 1 is opened (`A1`), and set the timer to send status every quarter of an hour (`< TP T 0001>`). The command is placed after the text and is therefore performed only when the device is connected.	
`1234 L1 STOP GENTAG <TP>`	Stops the alert with the message 'STOP REPEAT' when input 1 closes (`L1`), and deletes the timer settings (`<TP>`). Thereby sending the status is stopped. Is only performed when the device is connected.	

Send alarm

Alarm only with text: `1234 CT`	Only sends alarms which text on input and output has been created. Only entered text is sent.	I3
`1234 CN`	Only sends alarms which text as well as ID on input and output has been created.	
`1234 CF`	Sends alarms even if text has not been created. (Default setting)	
Delay on connection/disconnection ('wait'): `1234 Ax Wy TEXT`	Delays the alarm for 30 sec. for input x at opening in zone y. x = for example 0-7 by eight inputs y = 0-7. Zone 0 = all zones ' blank '.	I1
`1234 Lx Wy TEXT`	Delays the alarm for 30 sec. for input x at closing in zone y. x = for example 0-7 by eight inputs y = 0-7. Zone 0 = all zones ' blank '.	
Pool alarms together (Only valid for use of GSM): `1234 DM`	Collects alarm messages so that more alarms from same digital input or wireless detector only causes one alarm message each 15 min. (Default setting)	I3

9.4 `Outputs`

Automatic alarm: `1234 Gx`	Activates (closes) automatic relay outputs at alarm on inputs, and relay is opened again after x time. x = 1-9 (1 = 10 sec., 2 = 20 sec., 3 = 30 sec., 4 = 1 min, 5 = 2 min, 6 = 4 min, 7 = 8 min, 8 = 15 min og 9 = indefinite.	O3
	If relay outputs are to be opened, the relays are closed before by activation with the command Sx (x = 0-3 if the unit has four outputs).	O1
`1234 G0` (G0 = G + zero)	Does not activate automatic relay output 0 at alarm. Default setting.	
Show connection and disconnection: `1234 QN`	Sets the output to show the state of zones. Output 0 will close when the system is connected and open when the system is disconnected (default). If no zone has been indicated in the set-up only output 0 is activated. If relay outputs are to be opened, the relays are closed before by activation with the command Sx (x = 0-3 if the unit has four outputs). This is also valid for other outputs if there are more than one.	O3
`1234 QF`	Relays do not show state of zones. Default setting.	
Alarm and connection/disconnection: `1234 Gx` and `1234 QN`	Combines activation of outputs at alarm on zones with display of connection/disconnection.	O3
Outputs follow inputs: `1234 GA`	Indicates that outputs follow the corresponding inputs if text has been created. Alarm on analogue input activates relay 1. The command `1234 GA` may not be used together with `1234 QN` ("Outputs show connection/disconnection").	O3
Analogue output: (Only applies to units with analog output) `1234 Ux S yy,y`	Set analog output x for a voltage of yy, y volts. x = 0 (zero) when the device has one analogue output. y = 00,0-10,0	O2
`1234 Ux R`	Returns the voltage at the analogue output x. x = 0 (zero) when the device has one analogue output.	

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9.5 `Voltage`

Voltage: `1234 WN`	Sets inputs to activate at 24 V.	I3
`1234 WF`	Sets inputs to activate at GND (default setting).	
Power-saving:	Unit 4 can be set up to run in power saving mode. The device must be supplied with a battery and disconnected from external power. It must not be associated with a serial cable. In the power saving mode the GSM modem will go into hibernation mode and automatically wake of hibernation for one minute each hour. Alarms from inputs and power failure will be sent at once but the device only responds to commands once every hour.	
`1234 DN`	Activates the power saving mode	
`1234 DF`	Disable the power saving mode (default setting)	
`1234 DB`	Enables enhanced charging to approx. 4,1 V	
`1234 DE`	Deactivates enhanced charging.	

9.6 `Wireless detectors`

(Only for units with features for wireless)

Create detector

Create detector: `1234 DT xxxxxx TEXT`	Create detector no. xxxxxx with the chosen TEXT (max. 57 characters). Detector no. is shown on the detector.	W1
`1234 DT xxxxxx`	Deletes text for detector no. xxxxxx.	
Zone: `DT xxxxxx Zy TEXT`	Zy in the beginning of the text, indicate that the input belongs to zone y. y = 0-7	W1
Alarm only if text: `1234 CT`	Sets the unit to send created text from detectors.	W2
`1234 CN`	Sets the unit to send ID, detector no. and created text.	
`1234 CF`	Send alarms, although text is not created. Default Setting	
`1234 CB`	Send alarms, although text is not created. Stops if an OK-signal is not received after 30 min.	

Set-up with (SMS/text message) commands		

Await alarm ('wait'): `1234 DT xxxxxx Wz TEXT`	Writing Wz before the text indicates that the alarm from detector no. xxxxxx is only sent after 30 sec. z = 0-7 for zones.	W1
Time interval for alarms (Only valid for use of GSM): `1234 DM`	Collects alarm messages so that more alarms from same wireless detector only cause one alarm message each 15 min. Also affects digital inputs. Default setting.	W2
`1234 DS`	Collects alarm messages so that more alarms from same wireless detector only cause one alarm message each min.	
Sound by alarm: `1234 HN`	Activates sound signal from the central unit when the wireless detector releases alarm. (Default setting)	W2
`1234 HF`	Deactivates sound signal by activation of wireless detector.	
Sensitivity: `1234 xxxxxx yz TEXT`	Writing yx before the text specifies the sensitivity of the wireless seismic detector to be y and that it is connected to zone z. y = 0-5. 5 is the highest sensitivity and default, and 0 means not activated. z = 0-7 for zones.	W1

Monitoring

Failures to operate: `1234 FN`	Creates monitoring of detectors and makes sure that failures to operate are communicated to receiver.	
`1234 FF`	Deactivates monitoring of detectors. (Default setting)	
Battery: `1234 FB`	Creates monitoring on low battery level on detectors.	W2
`1234 FE`	Deactivates monitoring of low battery on detectors. (Default setting)	

Analog detectors

Wireless temperature (first create the detector): `1234 D1 xxxxxx S 0 0`	Activates temperature measurement in the climaSpot with detector no. xxxxxx.	W1

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`1234 D1 xxxxxx S -24 70`	Activates temperature measurement in flexSpot.	
`1234 D1 xxxxxx M z y`	Activates temperature alarm (if temperature exceeds the limits for normal interval). z = lowest and y = highest limit temperature in the normal interval.	
`1234 D1 xxxxxx M`	Deactivates temperature alarm. Measurements are now solely used for logging.	
`1234 D1 xxxxxx`	Deletes temperature set-up on detector xxxxxx.	
Text temperature alarm: `1234 D1 xxxxxx A TEXT`	Creates TEXT to be shown at temperature alarm.	W1
`1234 D1 xxxxxx L TEXT`	Creates TEXT to be shown when the temperature is again in the normal interval.	
Wireless humidity and other analogue measurement (first create the detector): `1234 D2 xxxxxx S 0 0`	Activates moisture measurement in the climaSpot with detector no. xxxxxx.	W1
`1234 D2 xxxxxx S z y`	Activates moisture and other analogue measurement in flexSpot z = minimum value and y = maximum value for analogue measuring equipment, e.g. PT100: x = -248 and y = 499.	
`1234 D2 xxxxxx K y`	Defines factors for volt and mill amperes. 0-10 V: y = 937 0-20 mA: y = 900	
`1234 D2 xxxxxx K`	Deletes factors for volt and mill amperes.	
`1234 D2 xxxxxx M z y`	Activates moisture and other analogue alarm (if humidity exceeds the limits for the normal interval). z = lowest and y = highest limit for humidity in the normal interval.	
`1234 D2 xxxxxx M`	Deactivates humidity and other analogue alarm. Measurements are now solely used for logging.	
`1234 D2 xxxxxx`	Deletes the setup for humidity and other analogue measurement on detector xxxxxx.	
Text humidity and other analogue alarms: `1234 D2 xxxxxx A TEXT`	Creates TEXT to be shown at humidity and other analogue alarm.	W1
`1234 D2 xxxxxx L TEXT`	Creates TEXT to be shown when humidity or other analogue measurements again are within the normal interval.	

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9.7 Macro with commands or infrared

Macro: `1234 Mx TEXT <COMMAND>`	Registers macro number x with the name TEXT (max. 16 characters) and carries out the command. More commands are separated by semicolon ';' without space. x = 0-9 and refers to the macro number. *Example* 1234 M0 PULSE5 < S0;PS 5;B0 > Creates macro no. zero with the name 'PULSE5' which draws output 0 for 5 sec.	V4
`1234 Mx TEXT` (only units 1 + 2)	Macro number x (x = 0-9) with the name TEXT is now made ready to receive IR codes from a remote control – Note that no commands is being set here. When the device's red diode flashes quickly: turn the remote control towards "IR in" and press with the desired functions for 30 sec. The diode lights up briefly and then flashes normally. Now is macro x saved with an infrared code.	
`1234 NAME`	Activates the macro named TEXT. The macro will now execute commands or play the IR codes. Macros are accepted without password	
`1234 Mx`	Deletes macro x (x = 0-9).	

9.8 Internet

See more in Chapter 12.

Access: `1234 EH USERNAME`	Activates the access to the Internet. To get access to the Internet it is required that N0 (N + zero) has been created: (`1234 N0 99999999`)	V3
`1234 EA USERNAME xxxxxxxx`	Activates access to the Internet and creates N0. (xxxxxxxx = phone number of the device)	
`1234 EH`	Deactivates the access to the Internet.	
`1234 EG NAME-OF-APN`	Defines the APN for the Internet connection. 'internet' as APN is default setting. E.g. `1234 EG INTERNET`	

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`1234 EG APN USER PASSWORD`	Defines the APN, user and password for the Internet connection.	
Own server: `1234 EI SERVERNAME TCPSERVERPORT`	Sets the device for handling on your own server.	

9.9 `Time features and clock functions`

Time

Create clock: `1234 TM`	Creates automatically the clock in the unit. The unit sends an SMS to itself and uses the actual time. It is required that N0 (N + zero) has been defined: (`1234 N0 99999999`)	V1
`1234 TM YY/MM/DD,HH:MM:SS`	Creates clock in the unit manually. The unit uses the time indicated. Enter year/month/date,hour:minute:second – all with two digits.	
`1234 TR`	Returns the time of the unit.	
`1234 TF`	Deletes clock from the unit.	

Timer and status

Timer: `1234 TP x yyyy <zz;zz>`	Codes the timer to execute command zz and command zz with an interval x at the time yyyy. x = W (for weekly), D (for daily), T (for number of 15 min. intervals) and M (for number of minutes). Indicates the interval of activation of the timer. yyyy = At 'Weekly' (always Wednesday) and 'Daily' is indicated with HHMM (time with hour and minutes). At 'No. of 15 minutes' is indicated the number of 15 minutes between activations, e.g. 0004 for each hour. 'Minutes' is stated with no. of minutes between activation, e.g. 0010 for each 10 minutes. zz = command. E.g. `MA D0;MA A1` to get status at the digital input zero (`MA D0`) and the analog input 1(`MA A1`), respectively. Note: the unit phone number and time need to be defined: `1234 N0 xxxxxxxx`	C3
`1234 TU`	Sets the timer to run indefinitely (default)	
`1234 Tx`	Codes the timer to activate x times (x = 1-9)	

`1234 T0` (T0 = T + zero)	Stops/deactivates the timer	
`1234 TP`	Deletes timer settings.	
Status: `1234 TP x yyyy`	Sets the timer to only send status. Functions as the timer, but without commands.	C3

Time control

Automatic connection/disconnection: `1234 TI HHMM hhmm`	Creation of automatic connection and disconnection of system. First parameter indicates time for connection and second parameter the time for disconnection. Notice that time for disconnection is at your choice.	C2
`1234 TI`	Deletes settings to automatic connection and disconnection.	
Time control of relay `1234 IU HHMM hhmm`	Activates time control of output for an interval. Closes relay 2 at 'HH:MM' and opens at: 'hh:mm'. Remember to define which output you need time controlled (`1234 IG x`) see below.	
`1234 IU HHMM hhmm HHMM hhmm`	Activates time control of output in two intervals. Remember to define which output you need time controlled (`1234 IG x`) see below.	
`1234 IU`	Deletes time control of all outputs.	
Define output for time control: `1234 IG x`	Defines which output time control applies for. Time control can apply for more than one output at a time. (x = 0-3 if the unit has four outputs. Units with more than four outputs can only use time control on output 0-3).	
`1234 IH x`	Deletes time control of output x.	

Calendar

Specific date: `1234 TS DDMMYY HHMM <COMMAND;COMMAND>`	Execute command(s) on date: ddmmyy, time hhmm. NB: The activity can NOT be deleted automatically. It needs to happen subsequently with: `TS ddmmyy hhmm` when the activity is executed.	C1
Daily: `1234 TS D HHMM <COMMAND;COMMAND>`	Execute command(s) every day at hhmm (time). *Example*	

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	`TS D 0700 <P0>` activates output 0 for 10 sec. every day at 7.00 pm.	

Weekly:
`1234 TS M HHMM <COMMAND;COMMAND>`
`1234 TS T HHMM <COMMAND;COMMAND>`
`1234 TS O HHMM <COMMAND;COMMAND>`
 	
`1234 TS R HHMM <COMMAND;COMMAND>`
 	
`1234 TS F HHMM <COMMAND;COMMAND>`
`1234 TS L HHMM <COMMAND;COMMAND>`
 	
`1234 TS S HHMM <COMMAND;COMMAND>`
	Execute command Mondays at hhmm
	Execute command Tuesdays at hhmm
	Execute command Wednesdays (O) at hhmm
	Execute command Thursdays (R) at hhmm
	Execute command Fridays at hhmm
	Execute command Saturdays (L) at hhmm
	Execute command Sundays at hhmm	

Delete activities:
`1234 TS DDMMYY HHMM`
`1234 TS D HHMM`
`1234 TS x HHMM`
 	
`1234 P#`
	Delete specific activity
	Delete daily activity
	Delete weekly activity (x = M, T, O, R, F, L, S)
	Delete all calendar settings	

Read calendar activities: `1234 PR C`	Returns all activities in the calendar to the requestor.	

9.10 `System messages and -alarms`

Messages

Message at connection and disconnection: `1234 EN`	The unit sends a message to alarm receivers at connection/disconnection.	M3
`1234 EF`	The unit does not send a message to alarm receivers at connection/disconnection. Default setting.	
Acknowledgement: `1234 KN`	The unit acknowledges each new command. Default setting.	V1
`1234 KF`	The unit does not acknowledge at new command.	

Cable/Internet:
`1234 KB`
 	
`1234 KE`
	The unit sends an alarm via RS232 or GPRS (default setting).
	The unit does not send an alarm via RS232 or GPRS.	

Display: `1234 LA TEXT`	Codes the TEXT to be shown on the display of the unit (max. 38 characters). Default text is "NO ALARM".	V2

Set-up with (SMS/text message) commands

System alarms

Sabotage, system; `1234 YN`	Sabotage/power alarms are also sent when the system is disconnected.	V1
`1234 YF`	Sabotage/power alarms are not sent when the system is disconnected. Default setting.	
`1234 L9 TEXT`	Codes the TEXT to be shown at sabotage on the unit (max. 64 characters). Default text is 'SABOTAGE'.	V2
Sabotage, zone: `1234 YN Zx`	Sabotage/power alarms from zone x are also sent when zone x is disconnected. x = 0-7	
`1234 YF Zx`	Sabotage/power alarms from zone x are not sent when zone x is disconnected. Default setting. x = 0-7	
Power failure: `1234 JM`	In case of power failure, the power alarm is sent after 30 min., after which the unit closes down. Default setting.	V1
`1234 JS`	In case of power failure, the power alarm is sent immediately (after app. 10 sec.), and the unit is supplied by battery for 30 min., after which the unit closes down.	
`1234 A8 TEXT`	Codes the TEXT to be shown at power failure. Default text is 'POWER FAILURE' (max. 64 characters).	V2
`1234 L8 TEXT`	Codes the TEXT to be shown when power is present. Default text is 'POWER OK' (max. 64 characters).	V2
`1234 JF`	The device does not send alarm in the event of a power failure.	V1

Siren

`1234 Hx`	Activates the siren (at alarm on inputs) and the siren stops again after x time. x = 1-9. 1 = 10 sec., 2 = 20 sec., 3 = 30 sec., 4 = 1 min, 5 = 2 min, 6 = 4 min, 7 = 8 min, 8 = 15 min and 9 = indefinite.	V1
`1234 H0` (H0 = H + zero)	Does not activate siren at alarm Default setting	

9.11 `Restore factory settings`

If it is necessary to delete all settings and voice message in the unit, the following command may be used:

`1234 P!` **BEWARE - Deletes all! And reinstalls original IR codes in units 1 and 2!**

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10 OPERATION

Operation covers the following:

- Connection and disconnection of the unit.
- Control of relay outputs
- Interrupt further alarms
- Inquiries to the unit
- Macro execution
- Text to and from a serial port (PLC)

10.1 Connection and disconnection of the unit

In disconnected state the unit will not send alarms, and the outputs are not activated as a consequence of activity on inputs.

NB: If the unit has been set with a command in the beginning of text field (see Chapter 5.5.1), instructions will also be carried out during disconnection.

Connection and disconnection with text messages

1234 ON	Connects the unit. Alarm is sent to the receivers. Four 'beeps' will sound from the unit, and a red diode flashes. Resets all outputs at the same time.
1234 OF	Disconnects the unit. Alarm is not sent to the receivers. Two 'beeps' from the unit and red diode turns off.
1234 ON Zx	(x = zone 0-7). Connects zone x. Alarms in zone x are sent to receivers of zone x. Four 'beeps' from the unit and a red diode flashes.
1234 OF Zx	(x = zone 0-7). Disconnects zone x. Two 'beeps' from the unit and red diode turns off.
1234 OV	(Applies to units with wireless interface) Connects the unit. After eight minutes the status of the detectors is sent. Compares with status of the time, when the central unit was last disconnected.
1234 OS	(Applies to units with wireless interface) Connects the unit. After eight minutes, the unit sends status of the detectors and shows which detectors are active.
1234 OA mm	Activates limited disconnection for 1-30 mins. The unit automatically connects all zones after 'mm' minutes. 'mm'=1-30. 'mm'=0 deactivates the function.
1234 OA	Deactivates limited disconnection. Default setting.

Connection and disconnection of zones

Connection and disconnection may be used on both the unit itself and on each zone. CONNECTION is the green circles. DISCONNECTION is the red ones.

Connect and disconnect the unit:

1. Press MENU
2. Press CONNECTION/DISCONNECTION
3. Select CONNECTION or DISCONNECTION by pressing the green or the red circles on which it says 0-7.

Connect and disconnect zone:

1. Press MENU
2. Press CONNECTION/DISCONNECTION
3. Choose to connect or disconnect a zone by pressing the green or red circles.

Notice: If e.g. zone 3 is disconnected, this is seen on the display in standby state by a red no. 3 in the row of eight green zones.
This is, however, only the case if you are logged in.

10.2 Control of relay outputs

The eight outputs are default opened and may be closed or opened by a command, text message or DTMF tones. Exceptions are:

`1234 Gx` activates outputs when an alarm is released (the relay will change position at alarm).

`1234 GA` where output reflects input (relays will follow inputs).

Control of relay outputs with (SMS/ text message) commands

`1234 Sx`	Closes output x (x = e.g. 0-3 if the device has four outputs)
`1234 Bx`	Opens output x
`1234 Sx P`	Closes output x app. 10 sec. (pulse).
`1234 Bx P`	Opens output x app. 10 sec. (pulse).
`1234 Px`	Output x changes stage (pulses) for app. 10 sec.
`1234 Jx`	Output x changes state (tilts).
`1234 PS xx`	Pauses between commands (1-99 sec.). x = number of sec., e.g. five sec.

`1234 TX TEXT`	Sends TEXT to serial port. Text string to port is terminated by CR+LF.

Control of relay outputs with DTMF

1. Call the unit
2. Await 1 tone
3. Enter possible password (e.g. `1234`)
4. Await 2 tones
5. Enter no. of the command you wish to carry out (see table to the right)
6. Repeat, if required, items 4+5
7. Hang up

`*0x`	Pulses output x for 10 sec. (x = e.g. 0-3 if the device has four outputs)
`*1x`	Opens output x
`*2x`	Closes output x
`*3x`	Opens output x for 10 sec. (pulse)
`*4x`	Closes output x for 10 sec. (pulse)
`*5x`	Changes state on output x
`x`	Executes macro x (x = macro 0-9)

10.3 Interrupt further alarms

Enter: # during playback of voice message or DTMF tones. Subsequent telephone numbers in the list of receivers are not alerted (Not all models have voice messages).

10.4 Inquiries to the unit

Inquiries are used to gather information from the unit. The response on inquiries is sent to the mobile phone that sent the message. All commands can also be used in the PC software command field and in the set-up on the Internet. Just skip the password "1234".

Inquiries to the unit by (SMS/ text message) commands

`1234 MO`	States status of all outputs. Only to the mobile telephone that sends the inquiry.
`1234 MR`	States status for inputs with text created. Only to the mobile telephone that sends the inquiry.
`1234 MA`	States status and activates commands on inputs with text encoded. Returns to all receivers.
`1234 PL`	States the last 10 events in the log. I.e. alarms gone in/data and sent commands. NB: Returns with one event in each text message = 10 texts
`1234 PL xxx`	(xxx = 001 – 256). States the latest x number of events in the log. I.e. alarms gone in/data and sent commands. NB: Returns with one event in each text message = xxx texts
`1234 PL A`	States all events in the log (256 lines). I.e. alarms gone in/data and sent commands. NB: Returns with one event in each text message = 256 texts
`1234 Vx R`	States the latest measurement from analog input x (x = e.g. 1-2 if the unit has two analog inputs).
`1234 Ux R`	States the voltage at analog output x. x = 0 (zero) when the device has one analog output
`1234 PA`	States analog measurements.
`1234 PA xx`	xx = number of days left in time
`1234 PA DDMMÅÅ DDMMÅÅ`	First date is 'from DATE' and second is 'to DATE' which can be excluded.
`1234 D1 xxxxxx R`	States temperature on detector no. xxxxxx

`1234 D2 xxxxxx R`	States humidity or other analog value on detector no. xxxxxx
`1234 P%`	Deletes analog measurements.
`1234 P&`	Deletes the entire log.
`1234 P/`	Deletes all connected wireless remote controls.

`1234 UL,1234 C1 R`
`1234 C2 R`
`1234 C3 R`
	States the number of pulses on input 1.
	States the number of pulses on input 2.
	States the number of pulses on input 3.

`1234 UN`	Resets pulse count.
`1234 OK`	States signal strength on the GSM net. If the signal strength is below 25%, you should use an extra antenna.
`1234 OM`	States the version number (model) of the unit.
`1234 OR`	Inform about status on connection/disconnection. Returns e.g. OR +++-+-++
`1234 PR`	States all of the unit set-up. Default texts are not returned.
`1234 PR O`	States set-up of inputs and outputs. Receivers and texts are not returned.
`1234 PR N`	States the receiver list.
`1234 PR T`	States all texts on inputs in the unit. (Digital/analogue). Including default texts.
`1234 PR K`	States all activities in the calendar.

Inquiries to the unit with the PC Program:

From the main page, press "Send inquiry" and the following display is shown:

Figure 10-1
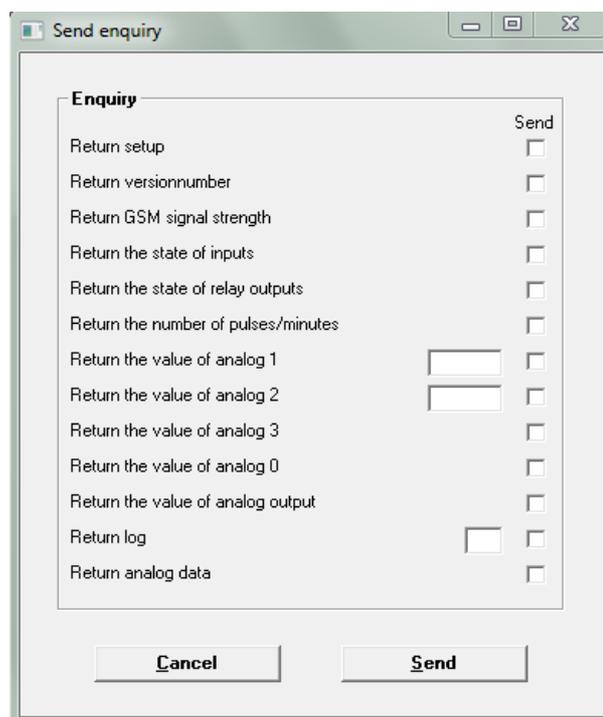
Mark the information, you want, and press Send.

In case of 'Return value of analog 1 or 2', you ask for the present status. Returns value of a specific detector (6-digit serial number to be written in the field) or a wired analog input (only check mark under 'Send' while the field is empty).

On climaSpot and climaSpot IP65, 'analog 1' is: Temperature, and 'analog 2': Humidity. On flexSpot, 'analog 1' is: Temperature and 'analog 2': 0-10 V, 0/4-24 mA, PT-1000.

At 'Return log' you shall either tick 'Send' and get a log of the 10 latest events, or you may choose how many events you want to be shown by writing the desired number in the field before 'Send'.

At 'Return analog data', you shall read the returned information by going to Files → Analog measurements. This log may be transferred to MS Excel. All other data is shown in the inbox on the main page.

Inquiries to the unit from display
(Only units with display)

If the unit runs with modem, you may send an inquiry to the unit, e.g. get an answer to the signal strength of the GSM net by the command OK.

Example Show GSM signal strength:
1. Press MENU
2. Press PROGRAMMING
3. Type in the letters OK under COMMAND
4. Press ENT and the unit acknowledges by 'beep'ing three times.

10.5 `Macro execution`

A created macro is activated by SMS or by telephone call and DTMF.

Example
Macro 1 has been created with the name 'PULSE5' which pulls output 2 for five sec. The macro has been created with the following SMS content: `1234 M1 PULSE5 <S2;PS 5;B2>`

Activate the macro by SMS/ text message: `1234 PULSE5`

Activate macro by call and DTMF:
1. Call the unit
2. Enter password (e.g. 1234)
3. Await 2 tones
4. Enter x (x = macro number 0-9)

10.6 `Text to and from a serial port (RS232)`

The unit can work as a modem and send and receive data from the serial port. In that way the unit can be used for controlling technical equipment, e.g. a PLC. The speed of the data transmission is 9600 baud.

Receive text from PLC

If an ASCII-text sequence from a PLC ends with CR+LF (max. 160 characters) the text will be sent as SMS to all receivers in zone 0.

Receive command from PLC

If a text starts with PIN code, e.g. "1234", the following will be perceived as a command.

`1234 N1 12345678` Codes receive no. 1 to 12345678.

Send text to PLC: `1234 TX TRANSFER THIS TEXT`

A text sequence 'TRANSFER THIS TEXT' which ends with CR+LF will be transferred with 9600 baud to e.g. a PLC on RS232

Data communication with PLC

With a GSM modem connected to a PC the unit will be able to send and receive data from a PLC when the call is made as 'data call'. Can be used e.g. with the program Hyper Terminal.

10.7 `Photo Camera`

The camera can take up to five pictures with 10 seconds in between and send it to a computer or a smartphone in case of a robbery or if you are worried about the house in a storm. The camera is connected to the unit via the USB input and it is placed so that it points out into the room. It is also required that you sign up as a user on www.profort.com and register your unit.
When you press 'Download image', the camera takes a picture and sends it to the unit 20 sec. later.

Setup with text message:
Encode the chosen username and the phone number of the unit, e.g. 12345678:
`1234 EA USERNAME 12345678`

Send this command if you need images to be shown on smartphone (macro #9):
`1234 M9 BILLEDE <PB>`

10.8 `GPS`

Press 'Send request' in the PC program and a window will appear in which you can press 'GPS position'. When the box is ticked and 'send' is pressed, a map from Google Maps will appear on the screen. It shows the position of the GPS. You can also send the command OG to see the Google Maps image.

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11 COMMANDS

Index:

`DB`	Enables extended charging to approx. 4.1 V	21
`DE`	Disables expanded charging	21
`DF`	Disables power saving mode (default setting)	21
`DM`	Collects alarm messages	
`DM`	Sets 'only alarm each 15. minutes'	13
`DN`	Enables power saving mode	20
`DS`	Cancels 'only alarm each 15. minutes'	13
`DS`	Sends alarm immediately	18
`DS`	Sets input to normal alarms	8
`DT xxxxxx` Deletes detector xxxxxx		12
`DT xxxxxx TEXT` Creates detector and text		12
`DT xxxxxx W1 TEXT` Delay alarm for 30 sec. in zone 1		12
`DT xxxxxx Xy TEXT` Sets sensibility on detector		12
`DT xxxxxx Z1 TEXT` Sets up text on detector no. xxxxxx in zone1		12
`EA BRUGERNAVN nnnnnnnn` Encode 'USERNAME' and number af device		30
`ED 123456` Sets up USERNAME and GSM number in LAN model		31
`EF`	Deactivate 'send message on connection/disconnection'	20
`EG APN USER PASSWORD` Access Point Name (APN)		22
`EH` Deactivates the internet traffic		22
`EH USERNAME` Activates GPRS/internet traffic and sets username		22
`EI servername serverport` sets parameters to access own TCP/IP-server		22
`EN` Activate 'send message on connection/disconnection'.		20
`F5` Sets up filter time e.g. 2 min. on all inputs with filter		8
`F2` Sets up filter time (e.g. 20 secs.) on all inputs with filter		10
`F2 A` Sets up asymmetric filter time		11
`FB` Deactivates low battery supervision on detectors.		12
`FE` Sets up low battery-check on detectors.		12
`FF` Deactivates detektor supervision.		12
`FN` Activates detector supervision		12
`G0` Cancels relay-outputs to activate by alarm on inputs		10
`G1` Sets relay-outputs to activate in case of alarm on inputs.		10
`GA` Sets output to reflect position on inputs		10
`H1` Activates siren/sounder for 10 secs. In case of alarm		
`HEAT22` Plays IR code recorded in the macro named 'HEAT22'		15
`HF` Deactivates sound signal by activation of wireless detector.		13
`HN` Activates sound signal by activation of wireless detector		12
`J0` Output x shifts state (**toggle**)		23
`JF` Do not send alarm in case of power failure		20
`JM` Sends alarm after ca. 30 sec. in case of power failure		20
`JS` Sends alarm immediately in case of power failure		20
`K0` Do not send alarm to the latest contact		4
`K1` Send alarm as SMS to the latest contact		4
`K2` Send alarm as voice call to the latest contact		4
`K3` Send alarm as SMS and voice call to the latest contact		4

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`KB`	Start sending af alarmbeskeder til web-server og RS232	30
`KE`	Stop sending af alarmbeskeder til web-server og RS232	
`KF`	Dectivates command acknowledgement	20
`KN`	Activates command acknowledgement.	20
`L0`	Deletes text on input 0 on close/make	5
`L0 TEXT`	Create text for input 0 which will be shown on close/make	5
`L0 W2 TEXT`	Create wait, zone and text for input 0 on 'close/make'	5
`L0 X2 TEXT`	Create filter, zone and text for input 0 on 'close/make'	5
`L0 Z2 TEXT`	Create zone and text for input 0 in zone 2 (0..7) on close/make	5
`L1 999999`	Sets an alarm limit on puls-/minute counting	6
`L2 999999`	Sets alarm limit= 999999 for alarm on counter on input 2	8
`L8 POWER OK`	Text when power return	28
`L9 SABOTAGE`	Text when sabotage	28
`LA INGEN ALARM`	Codes optional text in display	
`M1`	Delete IR code / macro in place 1	15
`M1`	Delete macro 1	14
`M1 NAME <command…>`	Creates a macro with the name NAME	14
`MA`	Returns status and execute commands	24
`MA D1`	Returns status on digital input no 1	24
`MI heat pump model`	Installs a number of functions (v.12.08)	15
`MO`	Returns the position of all outputs.	24
`MR`	Returns the status of inputs with entered text	24
`N0 99999999 0000`	Deactivate password	2
`N0 99999999 yyyy`	Change the PIN-code and set the units own telephone no.	2
`N1 99999999`	Create alarm receiver no. 1: SMS	3
`N1`	Deletes receiver on position no. 1	3
`N2 99999999 #`	Create receiver no. 2: voice call	3
`N3 +4699999999 +`	Create an approved telephone number on position 3	3
`N3 99999999 *`	Create receiver no. 3: tone call (DTMF)	3
`N4 200 aaaa@bb.dk`	Create receiver no. 4, alarm as e-mail	4
`N5 88888888 +`	Create approved number	4
`NR`	Normal sequence by alarm	5
`NR xxx…`	Change sequence by alarm	
`OA mm`	Activates temporary disconnection	
`OF`	Deactivate the unit O	23
`OF Z1`	Deactivate zone 1	23
`OG`	State GPS position	
`OK`	Returns the signal strength of the GSM-net	24
`OM`	Returns the version number of the unit (model).	24
`ON`	Activate the unit	23
`ON Z1`	Activate zone 1	23
`OP`	State position (GSM cell-ID and distance)	33
`OS`	Returns serial no. on each wireless detector	24
`OV`	Activates *wireless* device	32

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`P-`	Deletes configuration in device	
`P!` `A`	**Deletes the entire configuration incl. speach memory.**	25
`P!`	Deletes configuration exept InfraRed codes and GRPS information.	25
`P#`	Delete all calendar events	18; 25
`P%`	Delete analog log	25
`P&`	Delete alarm log	25
`P/`	Delete all remote controls in device	
`P0`	Output x shifts state (**pulses**) for approx. 10 sec	23
`PA` `ddmmyy` `ddmmyy`	Returns measurements within specific interval (vers. 12.20)	24
`PA` `ddmmyy`	Returns measurements from specific date (vers. 12.20)	24
`PA` `nn`	Returns number of measurements (vers. 12.20)	24
`PA`	Returns all analogue measurements to PC	24
`PB` `5`	Record 5 pictures from camera	
`PB`	Record a picture from camera	21
`PL`	Returns the latest 10 events from the log	24
`PL` `A`	Returns all events from the log.	24
`PL` `nnn`.	Returns the latest nnn number of events from the log	24
`PR`	Returns all settings of the unit.	24
`PR` `I`	Returnerer IR-koder	34
`PR` `K`	Returnerer alle aktiveteter i kalenderen	25
`PR` `K`	Returnerer kalenderindstillinger	
`PR` `M`	Returns macros in the unit	24
`PR` `N`	Returns only the receiver list in the central unit.	24
`PR` `O`	Returns the settings of inputs and outputs	24
`PR` `T`	Returns all texts of inputs in the unit	24
`PS` `xx`	**Pause** between commands (1-99 sec.)	23
`Q2`	Sets pulse length (P0) to 20 secs. (vers. 12.51)	15
`Q2`	Sets pulse length on output to 20 secs. (*vers. 12.51*)	
`QF`	Cancels outputs to show state of zones.	11
`QN`	Sets outputs to show position of zones	11
`R1` `NAVN` `<kommando>`	Creates macro 'NAME' on position 11(**fra vers. 13**).	
`R1`	Execute macro no. 1	23
`RF`	Deactivates connection/disconnection on input 0	6
`RN`	The calling sequence is restored to normal	4
`RN` `nnn...`	Calls are executed only to selected positions and in the listed order	4
`RN`	Sets up connection/disconnection: level switch (toggle switch)	6
`RP`	Sets up connection/disconnection: pulse switch (call switch)	6
`S0`	Closes output 0	23
`S0` `P`	Closes output 0 for approx. 10 sec.	23
`S8` `POWER OK`	Responds when power returns	28
`S9` `SABOTAGE`	Responds when sabotage, sent to recipients in zone 0	
`T0`	Stop timer.	17
`T1`	Set timer to activate: once	17
`TA` `9999`	Change password in wireless device	

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`V1 B Z1 HØJ TEMPERATUR` Sets up zone 1 and text for analog 1	
`V1 L TEMP HIGH` Sets up text for HIGH interval on analog 1	8
`V1 L TEMP MEDIUM` Sets up text for MEDIUM interval on analog 1	8
`V1 L X1 TEMP HIGH` Sets up filter and text for HIGH interval on analog 1 in zone	8
`V1 L X1 TEMP MEDIUM` Sets up filter and text for MEDIUM interval on analog 1 in zone 1	8
`V1 L Z1 TEMP HIGH` Sets up text for HIGH interval on analog 1 in zone 1	8
`V1 L Z1 TEMP MEDIUM` Sets up text for MIDIUM interval on analog 1 in zone 1	8
`V1 M 5 20` Sets up alarm limits analog 1	
`V1 M point1 point2` Sets up values for 'point1' and 'point2' on analog 1.	7
`V1 P -x,x` (**from vers.12.11**) Alarm by in-/decrease	8
`V1 R` Returns the value of measuring on analog input 1	24
`V1 S min max` Sets up minimum and maximum scale on analog 1	7
`VF` Stops sending of numbers, textsr and signal strength on wireless sensors	18
`VT` Return numbers, texts and signal strength on wireless sensors	
`W1` Sets the unit to send one single voice message	9
`W2` Sets the unit to send split voice message	9
`WF` Sets inputs to activate by GND.	6
`WN` Sets inputs to activate by 24 V	6
`X9` Delay Voice call and DTMF	9
`YN` Activates Sabotage and power alarm when the unit is disconnected	20
`YN` Deactivates Sabotage and power alarm when the unit is disconnected	2

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12 INTERNET

The unit can be handled over the Internet at www.profort.com. Here, you may register as user and have an area assigned to your unit(s).

In order to use the Internet for monitoring and control it is required that your computer has a connection, and that the GSM unit has been set to the Internet (for Internet settings on the PC see item c and d page 25 and GPRS page 42. For setting up with text messages:

Activate by SMS
To get access to the Internet it is required that N0 (N + zero) has been created:
(`1234 N0 99999999`).

> `1234 EH USERNAME` activates the access to the Internet.

> USER NAME is what you want to log on to the Internet with. This may consist of letters and numbers and can contain up to 16 characters. Symbols, special characters and spaces are not allowed.

> NB: If you have registered a USER NAME under Files → Settings, you shall also use it as user name here.

> `1234 EH` deactivates the access to the Internet.

APN by SMS
> If nothing else is indicated, the software will try to attach 'internet' as APN. If you use another telephone company with another APN, you have to define APN and possibly also user and password (see APN, User and Password page 42).

`1234 EG NAME-OF-APN` defines the APN for the internet connection.

<div align="center">E.g. <code>1234 EG INTERNET</code></div>

> `1234 EG NAME-OF-APN USER CODE` defines the APN, user and password for the Internet connection.

Create user at www.profort.com
> Go to the Internet site and create a user. Fill in:
6. Name/company. Indicate a name, e.g. a company name. This will welcome you to the site.
7. User name. It is important that the user name is the same as given in the set-up under settings in the PC program (see 'Username on the Internet' on page 25) or by text message (`1234 EH USERNAME`).
8. Access code. Select an access code. This does not have to be the same as the one of the unit. It may consist of letters and numbers and can contain up to 16 characters. Symbols, special characters and spaces are not allowed.
9. Email. Indicate an email address. If you forget e.g. your access code, you may get information of it in a mail.

On the site, you may, among others, get status updates and control certain functions.

Log in on www.profort.com for further help for the Internet administration of the unit.

```
                                    Internet
```

NB: In order to function on the Internet, it is required that the unit is version 11.05 or later, and that the PC software is version 5.01.01 or later.

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13 VOICE MESSAGES

(Only applies to units 5, 7 and 8)

The unit has 90 sec. voice memory and will always first play the general message (six seconds.) followed by the actual alarm message (three or six seconds.).

The receiver may acknowledge a voice message with #. If this does not take place, the unit will continue to the next receiver on the list. When a receiver acknowledges with # during the playback of the voice message, the receiver list is interrupted, and further alarms are called off.

You may record messages for both digital and analog inputs, system alarms as well as wireless detectors. To get voice messages from the wireless detectors, the detectors must be created in zones. The zones release alarms from corresponding inputs, e.g. zone 1 is the same message as input 1, zone 2 as input 2, etc.

13.1 `Record voice message`

To record the voice message, you have to call the unit and record the desired messages.

1. Call the unit
2. Await 1 tone
3. Enter possible password (e.g. 1234)
4. Await 2 tones
5. Enter no. of the message that you want to record, e.g. #8 (for general message)
6. Await 1 tone
7. Record message
8. Await 2 tones. Call may be ended or a new voice message recorded, e.g.:
9. Enter #x (opens input x)
10. Await 1 tone
11. Record alarm message for input x
12. Repeat item 8-10 for more message, if required
13. Hang up

If "send different voice messages at open and close"(Tab: Inputs or command `1234 W2`) has been selected, items 6-7 are run twice. Record first message for 'open' (3 sec.), await 1 tone, record message for 'close' (3 sec).

In case of wrong password, the unit breaks the connection, and you have to call again.

13.2 `Duration of voice messages`

CODES FOR RECORDING OF VOICE MESSAGES			
#8 General message	6 sec.	**Analog inputs**	
		#90: analog input 0	6 sec.
Digital inputs		#91: analog input 1	6 sec.
#0 for input / zone 0	6 sec.	#92: analog input 2	6 sec.
#1 for input / zone 1	6 sec.	#93: analog input 3	6 sec.
#2 for input / zone 2	6 sec.		
#3 for input / zone 3	6 sec.	**System alarm**	
#4 for input / zone 4	6 sec.	#94: power failure	3 sec.
#5 for input / zone 5	6 sec.	#95: power ok	3 sec.
#6 for input / zone 6	6 sec.	#96: sabotage	3 sec.
#7 for input / zone 7	6 sec.	#97: connection	3 sec.
		#98: disconnection	3 sec.

14 LOG

The unit saves the information from the monitoring in a data log and an event log, respectively. They may be seen in the PC Program (needs as a minimum the Basis Setup or on the unit display (for units with display).

14.1 `Event log`

The event log keeps 256 events. An event may be e.g. a command given, an alarm or a status message.

See event log in the PC Program
(Requires the Basis Setup

The event log in the PC Program may be read in the inbox on the main page. If the inbox is not visible, you may find it under Files → Show inbox. The box contains much different information received by the unit. To see the event log you therefore first have to ask if you can have it sent to you.

Press 'Send inquiry' on the main page. Ask for a 'Return log'. This may be done in two ways; either tick 'Send', and get a log of the 10 latest events, or you may choose how many events you want it to show by writing the desired number in the field before 'Send' (see figure 10-1, if required).
The event log may now be read in the inbox.

Figure 14-1

The inbox may be printed in Files → Print inbox. The print may be sorted after date or sender. This way, it is possible to print the event log.

The inbox may be hidden again from the main page in Files > Show inbox.

See event log on the display
(For units with display)

The log shows the latest events (up to 256), e.g. alarms, warnings, CONNECTION/DISCONNECTION and programming.

1. Press MENU
2. Press LOG
3. Press ALARMS

Use the UP and DOWN buttons to navigate up and down the list. A whole page changes when you press UP or DOWN.

If the unit is not operating with modem, or the timer function activated, the log will not show the time of the alarm (date/time). Only the alarm number in the history, e.g.:

> 001 B9 SABOTAGE
> 002 [serial no.] TEXT

If the timer function is activated, the display will show the time of the alarm (date/time), e.g.:

> 01/16/05 1038

The history is shown chronologically.

Notice, if the unit is set to only send alarm if text has been created, you may only see the text defined detectors.

See event log with text messages

`1234 PL`	States the last 10 events in the log. I.e. alarms gone in/data and sent commands. NB: Returns with one event in each text message = 10 texts
`1234 PL xxx`	(xxx = 001 – 256). States the latest x number of events in the log. I.e. alarms gone in/data and sent commands. NB: Returns with one event in each text message = xxx texts
`1234 PL A`	States all events in the log (256 lines). I.e. alarms gone in/data and sent commands. NB: Returns with one event in each text message = 256 texts

14.2 `Data log`

The data log in the unit holds 24,576 or 73,728 measurements depending on the unit. Data is collected from a wireless detector each 4 minutes, and two measurements per hour are registered. This gives e.g. room for app. four years of measurements from a measuring point, two years for two points, etc. if the unit holds 73,728 measurements.

You may create 32 measuring points as a maximum. A climaSpot takes up two measuring point when both temperature and humidity are activated. The wired analog inputs count in the number of measuring points, when they are activated. When the log is full, the most ancient posts are overwritten.

The clock must be set in the unit before the data log can be used.

Log

See data log in the unit display
(For units with display)

1. Press MENU
2. Press LOG
3. Press MEASUREMENTS

Use the UP and DOWN buttons to navigate up and down the list. A whole page changes when you press UP or DOWN.

Note: Measurements are dynamically updated every minute. Red numbers indicate that the value is outside of the interval.

Transfer data log from unit to PC
(Requires the Basis Setup

In order to transfer the data log from the unit to a PC, they have to be connected by a RS232 cable or via the Internet.

10. Open Profort PC Program
11. Press 'Send inquiry' → Mark the field 'Return analog data' (see Figure 14-2).
12. The unit will now transfer all measurements from wireless and wired measuring tools if they have been created with text.
13. When 'Measurements are received' in the bottom of the window disappears, the log has been transferred to the PC. This may take some minutes.

Figure 14-2
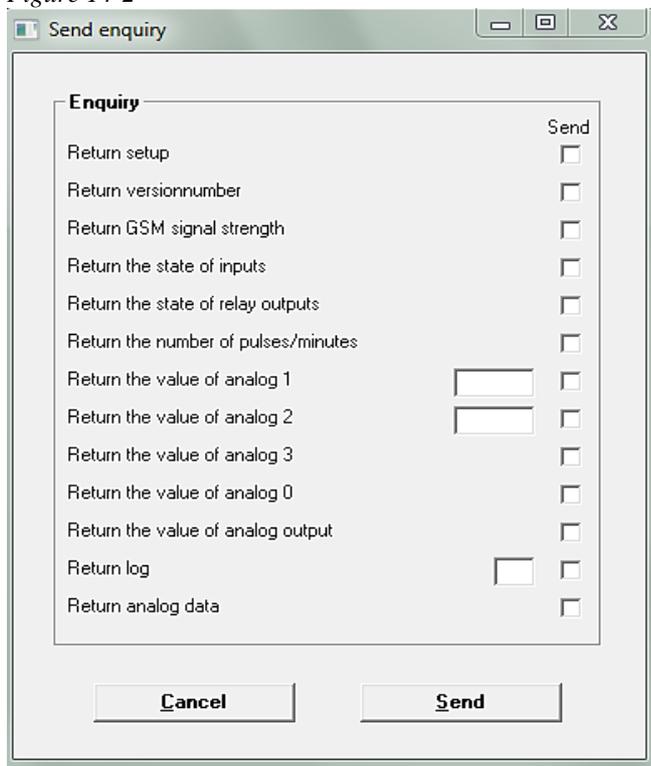
Read log

Select 'Files' → 'Analog measurements'. Select search criteria and press 'Show'.

Figure 14-3

When you have finished looking at the log, you shall finish with 'Ok' to close the window and return to the main page. Or you may choose to press 'Export' to save the log as a .csv file. A .csv file may e.g. be further processed in MS Excel.

If you type 'Presentation', data will be transferred to Excel and shown in a diagram. However it requires that Excel has been installed in the PC.

15 IR CODES

IR remote control (units 1+2) can record and play infrared signals e.g. from a remote control. The infrared code shall be recorded as macro and can be played by phoning the device, sending a text message, activation by login at www.profort.com, or as command through the PC Program.

Other models with IR sender need to have IR codes transferred via PC Basic from a '.csv-file' which can be downloaded from the Profort webpage. In unit 7 macro 0-4 can be used for IR codes.

Record IR code with Profort PC Program

- Prepare the remote control of the heat pump to ship the desired function
- Open the Profort PC Program, click on 'Setup', and select the tab 'More'
- Navigate to the Macros (V4)
- Type a name of the function in the 'Macro name' for example: HEAT8 (see Figure 15-1)
- Tap 'Send/Save' (or 'Execute' in Quick Setup)
- The red LED lamp of the unit blinks quickly for 30 sec. Point the remote control of the heat pump at the device and activate the desired function. The LED lamp goes off when a valid IR code is received.

The IR-code is now stored in the device. In order to save the code in the PC application you must upload the set-up from the device to the program. On the main page press 'Send inquiry' > 'Return setup'. The IR-codes will now be transferred and stored in Profort PC application.

Figure 15-1

Record IR code with text messages

1. Set the desired options on the remote control
2. Send a text message with the command `1234 Mx TEXT` (x = 0-9)
3. Macro x (x = 0-9) with the name TEXT is now prepared
4. When the red diode of the device flashes quickly: turn the remote control towards "IR-in" at the device and press the desired function within the next 30 sec.
5. The diode lights up briefly and then flashes normally. Now macro x is saved with an infrared code and the name TEXT.

The IR code is saved in the device. See above how to transmit the information to Profort PC application.

Archive for IR codes

Profort PC Program has an archive for infrared codes (Figure 15-2). It requires as a minimum the Profort PC Program with Basis Setup.

The archive can be found at the top of the main page (Figure 5-4) under Project > Infrared codes.

Figure 15-2

	Product	Model	Macro	Macro name	Code
	BOSCH	EPH 6.0	1	VARM	9A471!
	BOSCH	EPH 6.0	2	KOLD10	9A471!
	BOSCH	EPH 6.0	3	SLUK	9A471|
	BOSCH	EPH 6.0	4	OP	9A471|
	BOSCH	EPH 6.0	5	NED	994718
	BOSCH	NOGET	1	HEAT8	8C411:
	BOSCH	NOGET	2	HEAT10	8F401!
	BOSCH	NOGET	3	HEAT16	8E401|
	BOSCH	NOGET	4	HEAT20	8D411
	BOSCH	NOGET	5	HEAT22	884612
	BOSCH	NOGET	6	OFF	8A441|
	IVT	FR-N	1	VARM	974814
	IVT	FR-N	2	TIL10	974914
	IVT	FR-N	3	FRA10	964815
	IVT	FR-N	4	SLUK	974814
	IVT	FR-N	6	OP	964913
	IVT	FR-N	7	NED	984814
	SANYO	ALLE	1	SLUK	893D1
	SANYO	ALLE	2	TIL	873F1!
	SANYO	ALLE	3	VARM16	873F1:
	SANYO	ALLE	4	VARM20	864012
▶	SANYO	ALLE	5	VARM22	874011
*					

Import of CSV file   Export to CSV file   Close

It is possible to archive the IR codes from Profort PC Program or to import external IR codes from a .csv file to the archive. The archive can conversely also be exported to a .csv file, so that the IR codes can be stored for later use.

The Profort PC application can either send the codes from the program to archive or you can load codes from the archive into the software so that you don't have to record the code yourself.

Send infrared codes to archive

Go to the main page of the Profort PC program and press the bottom 'Setup'. Find the tab 'more' and the area of 'Macros' (V4).

Press the button 'Send infrared codes to archive' and enter the manufacturer and model of the object that matches the IR codes e.g. Bosch EPH 6.0 heat pump.

The codes are now sent from the set-up to the archive in the PC Program.

Retrieve infrared codes from archive

If any IR codes previously have been archived either by record or download, they can be retrieved from the archive by pressing the button 'Retrieve infrared codes from archive' in territory V4 (see above).
Select from which manufacturer and model you want to download IR codes. Manufacturer and model are shown only when IR codes are stored in the archive.

When you press 'Send/Save' you pass the set-up to the device and save the codes in there.

Export IR-codes

IR codes can be pulled out of the Profort PC Program and saved for later use by exporting them to a .csv file.

1. Open the archive with the IR codes (see above about the archive)
2. Press the 'Export to CSV file'
3. Select a location on your computer where you want to save the codes
4. The IR codes from the archive is now stored outside Profort PC Program

Import IR-codes

If you are in possession of a .csv file with IR codes you can import it into Profort PC Program and transmit it to a device. You hence do not need to record the codes yourselves.

- Open the archive to the IR codes (see message above about the archive)
- Press 'Import of CSV file'
- Locate the desired file on your computer and open it
- The new IR codes are now retrieved into the archive in Profort PC Program, and can be transferred to a device (see 'Retrieve infrared codes from archive' above if needed).

At www.profort.com a .csv file with IR codes to different heat pumps is saved at DOWNLOAD by models with infrared. Save the file on your computer, and it is ready to be imported to the archive in Profort PC Program.

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16 FREQUENTLY ASKED QUESTIONS

Fault	Cause	Solution
The unit 'beeps' quickly at start-up	A wrong PIN code has been used on the SIM card.	Set the PIN code of the SIM card to 1234 and restart the unit.
The unit 'beeps' app. each 15 sec.	No connection to the SIM card	The SIM card has a defect or has been mounted wrongly
The red LED of the unit flashes three times	The mobile number of the unit itself has not been correctly indicated.	Indicate correct mobile no. or remove status or timer functions.
After four beeps, the unit flashes twice.	The SIM card has not been inserted, or has been inserted incorrectly into the unit.	Check if the SIM card has been correctly inserted in the unit.
	The unit has no contact to the internet.	Check if the SIM card functions correctly, or if the unit has been set with all parameters to the Internet.
The unit cannot send an alarm.	The SIM card is not functioning.	Put the SIM card in a mobile phone and check if you can send and receive text messages.
	No voltage on the unit.	Check whether the green LED is lit. If this is not the case, a correct power supply shall be used.
	Wrong receiver number.	Check if the correct receiver telephone no. has been used, and if a mobile telephone no. has been used for text message.
	Text definition	Check if the unit has been set up to send only alarms whose input is text defined.
	Unit is not connected	Check if the red LED flashes. If this is the case, the unit is either connected by input #0 or text.
	No GSM coverage.	Connect the unit to PC and send the command 'OK' or see bottom of the display. GSM signal strength is returned and shall be higher than 25%.
	Inputs are divided into zones with no texts indicated.	If zone division is used, you always have to indicate a text on the inputs used.
Disconnection and connection of the central unit does not work from input 0.	Wrong set-up.	If input 0 is to be used for disconnection and connection, the command 'RP' shall be used,

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		if input 0 is activated by a pulse. If input 0 is activated by a level, 'RN' is used.
The unit timer function does not work.	Wrong GSM no.	Indicate correct GSM No. on the SIM card to the unit.
The unit status function does not work.	Wrong GSM no.	Same.
Sends the text NO TIME.	Wrong or missing GSM number.	Same.
Power alarm is not sent when external power is removed.	Battery does not work.	Notice that you have to use rechargeable batteries. Either the battery is defect, or it has not yet been sufficiently charged.
	Default is 'Send power alarm after 30 min.'.	Change to 'Send power alarm immediately' with PC Program or text message"1234 JS".
Cannot get into contact with the unit via PC.	RS232 connection between PC and central unit is defect.	Check if the connection between central unit and PC has been correctly mounted.
		Check if cable is intact and has connection in all nine conductors.
		Check if the PC software uses the correct COM-port.
	Unit does not reply to set-up.	A wrong password is used for the unit. Take out the SIM card from the unit and change it in a GSM mobile telephone to 1234. Remember that the PIN code shall be activated.
	Unit busy.	Check whether the red LED is lit. If this is the case, the unit is busy. Wait till the red led shuts off or restart the unit.
	LED is constantly on, and SIM card has not been mounted.	Activate alarm on any input.
Error message 'Installation error' is shown.	The detector in question has not been correctly installed.	Check if the physical surroundings disturb the performance of the detector (e.g. light, air flows, concrete), battery in detector and possibly adjust sensitivity of the shake detector.

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17 SCREENSHOTS

M = Tab Modem
I = Tab Input
O = Tab Output
C = Tab Calendar
W = Tab Wireless
V = Tab More (Various)
1-9 = The area on the tab with the underlined heading
a-d = Points in an area

Tab Modem (M)

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Screenshots

Tab Input (I)

Modem | Inputs | Outputs | Wireless | More |

Digital inputs

I1

	Text when input is opened	Text when input is closed	Zone	Filter	Wait	Send
0	TEMPERATURE LOW	TEMPERATURE OK	☐	☐	☐	☐
1			☐	☐	☐	☐
2			☐	☐	☐	☐
3			☐	☐	☐	☐
4			☐	☐	☐	☐
5			☐	☐	☐	☐
6			☐	☐	☐	☐
7			☐	☐	☐	☐

I2

Analog inputs

	Type	Scale min	Low text	Point 1	Medium text	Point 2	High text	Scale max	Zone	Filter	Send
1		-20	TEMPERATUR LA	0	TEMPRATUR OK	30		60	☐	☐	☐
2									☐	☐	☐
3									☐	☐	☐
0									☐	☐	☐

I3

Setup

		Send			Send
Input 0 used for connecting/disconnecting		☐	Only send alarm every 15 minutes	☐	☐
Input 1 used for counting		☐	Send different voice messages on open and close	☐	☐
Filter time	10 sec.	☐	Activate digital inputs	GND	☐
Only send the alarm if text is entered		☐			

Tab Output (O)

Relay outputs

O1
O3

	Opened	Closed	Send
0	●	○	☐
1	●	○	☐
2	●	○	☐
3	●	○	☐
4	●	○	☐
5	●	○	☐
6	●	○	☐
7	●	○	☐

O2

Setup

		Send
Activate relay output on alarms	20 sec.	☐
Relay outputs reflect connected/disconnected state	☐	☐

Analog output

		Send
Set voltage (0.0 - 10.0)		☐

Tab Calendar (C)

Modem | Inputs | Outputs | Calendar | Wireless | Andet |

Calendar

C1

Day	Time	Commands	Send
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐

C3
C2

Timer

Interval	Time	Commands	Send
			☐

Automatic connect/disconnect

Connect	Disconn.	Send
		☐

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Tab Wireless (W)

W1

W2

W3

W4

Tab More (V)

V1
V2

V3

V4

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Quick setup

When the fields are entered, click the <Next> button.

M1

Central unit

Present Password: 1234
GSM number: 12345678
New Password: 1234
ID: DEMO

Quick setup 2

M2

Receivers

	Telephone no.	SMS	Voice	DTMF	Email	Approve	Sia ip	Zone
1	23456789	●	○	○	○	○	○	☐
2		●	○	○	○	○		☐
3		●	○	○	○	○		☐
4		●	○	○	○	○		☐
5		●	○	○	○	○		☐
6		●	○	○	○	○		☐
7		●	○	○	○	○		☐
8		●	○	○	○	○		☐
9		●	○	○	○	○		☐

M3
d

Setup

Send alarm to the user who latest contacted the unit: None

Quick setup 3

"Point 2". E.g. 0 degrees in "Point 1" and 30 degrees in "Point 2". The "Medium text" is sent when the value again is between "Point 1" and "Point

I1

Digital inputs

	Text when input is opened	Text when input is closed	Zone	Filter
0	TEMPERATURE LOW	TEMPERATURE OK	☐	☐
1			☐	☐
2			☐	☐
3			☐	☐
4			☐	☐
5			☐	☐
6			☐	☐
7			☐	☐

I2

Analog inputs

	Type	Scale min	Low text	Point 1	Medium text	Point 2	High text	Scale max	Zone	Filter
1		-20	TEMPERATUR LA	0	TEMPRATUR OK	30		60	☐	☐
2									☐	☐
3									☐	☐
0									☐	☐

I3

Setup

Input 0 used for connecting/disconnecting

Input 1 used for counting

Filter time: 10 sec.

Only send the alarm if text is entered

Only send alarm every 15 minutes ☐

Send different voice messages on open and close ☐

Activate digital inputs: GND

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Quick setup 4

At last click the <Execute> button and the setup will be transferred to the unit. This operation takes about 1 minute.

Setup

O3   Activate relay output on alarms   20 sec.
Relay outputs reflect connected/disconnected state   ☐

M3-a Send message to receivers on connect/disconnect   ☐
Return command   ☑

V1   Send also sabotage alarm when unit is disconnected ☐
Send power alarm   30 min.

Timer

Interval   Time   Commands
Number of minutes   0010   MA D1;MA A1

Automatic connect/disconnect
Connect   Disconn.

Relay outputs
              Opened Closed
0   ◉   ○
1   ◉   ○
2   ◉   ○
3   ◉   ○
4   ◉   ○
5   ◉   ○
6   ◉   ○
7   ◉   ○

V3   GPRS
Phone service provider   APN   User   Password
GPRS is not used

V4   Macros
Macro name   Commands
C3   0   TEMP   V1 R
C2   1   HEAT8   R1

O1   Cancel   Back   Execute

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