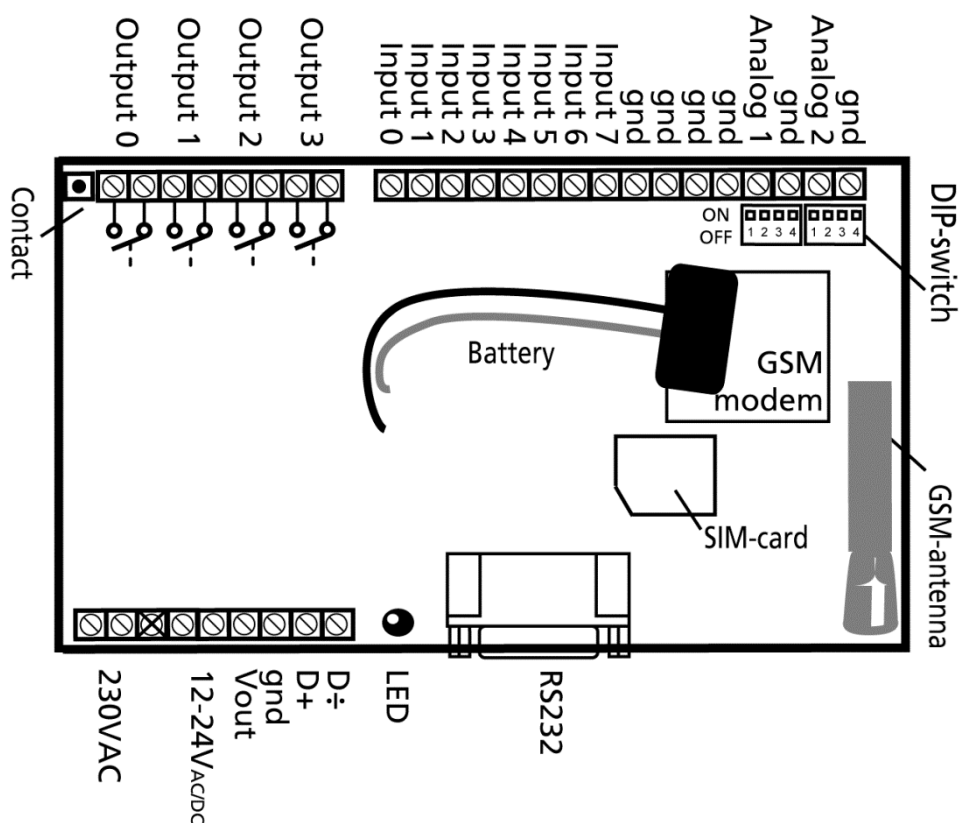




## Installation

1. Prepare a SIM card so that the PIN code is 1234 or is deactivated. Mount the card in the unit. The unit now has password 1234 or runs without a password. The card is mounted as shown below.
2. Connect inputs, outputs and power cable (230V/12-24V AC/DC). If necessary a rechargeable 9V battery.
3. Turn on the power. A diode is lit. After approx. 60 secs. the diode flashes approx. every 2 secs. and the unit is ready.

### multiGuard DIN9 interior



#### DIP-switch for analog input

- 1 ON: 0-10 VDC
- 2 ON: 0/4-20 mA
- 3 ON: PT-100
- 4 ON: Profort temperature sensor
- All OFF: digital input

#### Voltage

- Output: AC max. 230 VAC, 6A  
DC max. 30 VDC, 6A
  - Input, digital: max. 24 VDC  
max. power 2 mA
  - Input, analog: max. 0-10 VDC
- Only connect voltage when the DIP-switch 1 is on, and 2-4 are off

## Set-up on PC via the PC COM-port



1. Connect the device to the PC COM port with an RS-232 cable or USB-RS232 converter (the converter driver must be installed)
2. Install Profort PC software on a computer with Windows by downloading the program from [www.profort.dk](http://www.profort.dk). Start the program and enter the product key specified on the page.
3. Enter the number of the COM port the PC is using
4. Complete the rest of the setup program and end by transferring the information to the device

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Additional help: press F1 in the program, see the manual on the CD or [www.profort.com](http://www.profort.com)

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## Set-up via masterView



1. Open a browser on your PC, tablet or smartphone.
2. Type <http://setup.masterview.dk> in the address bar, and choose 'setup' (or login via [www.profort.dk](http://www.profort.dk)). Log on to the portal or create yourself as user. An unlimited number of units can be connected to any user, and several users can be connected to the same units.
3. Create a new unit in the list and choose multiGuard DIN9 as unit. When you press SAVE the portal sends a text message to the unit, which connects it to the Profort server via GPRS/Internet on the SIM-card. The USERNAME of the unit will now be its telephone number (to be used, if controlling the unit via the Profort app). All communication will then take place as data.
4. Type in the required information and press 'send and save'.
5. The unit is now ready to use.

## CONTROL



### Set-up with text message

1234 = password, 0 = zero, space counts as a character and is therefore important. Do not fill in password if PIN is disabled on SIM-card.

Define the unit phone number, change password, if necessary and add ID text	1234 N0 88888888 yyyy ID-TEXT (N0 = N + zero)	1234 = current password, N0, 88888888=mobile number of the unit.  Alternately yyyy=new four-digit password.  Alternately ID-text: First text in all messages from the unit (max. 32 characters).
<b>Receivers</b>		
Add	1234 N1 11111111	Adds receiver 11111111 in space no. 1 to receive alarm as text message.
	1234 N2 11111111 #	Adds receiver 11111111 in space no. 2 to receive alarm as telephone call with tones.  Additional spaces (25 total): N2..N9, NA (10), NB (11) .. NP (25),.
Delete	1234 N1	Deletes receiver in space no. 1
<b>Text on input</b>		
Add	1234 A0 BREAK TEXT	TEXT on input 0 by open/break. (A0..A7)
	1234 L0 END TEXT	TEXT on input 0 by close/make. (L0..L7)
Delete	1234 A0	Deletes TEXT for input 0 by open/break. (A0..A7)
	1234 L0	Deletes TEXT for input 0 by close/make. (L0..L7)
Only alarm if text is added	1234 CT	The unit ignores input that has no text attached.
Add analog input 1 (V1) and 2 (V2)	1234 V1 S yyyy zzzz	Set-up of the scale (yyyy = zzzz): (V1 .. V2) 0-10 V (DIP-switch 1=ON) 0 10 0-20 mA. (DIP-switch 2=ON) 0 20 4-20 mA. (DIP-switch 2=ON) -5 20 PT100. (DIP-switch 3=ON) -309 115 Profort PTC. (DIP-switch 4=ON) -132 63
Add 2 alarm points	1234 V1 M 5 30	The unit sends alarm e.g. when temperature passes 5 and 30 degrees C.
Add text in LOW interval	1234 V1 A LOW TEMP	Alarm text in LOW interval (below 5 degrees C.)
Add text in MEDIUM interval	1234 V1 L NORMAL TEMP	Alarm text in MEDIUM interval (between 5 and 30 degrees C.)
Add text in HIGH interval	1234 V1 B HIGH TEMP	Alarm text in HIGH interval (higher than 30 degrees C.)

## QUICKGUIDE

Activate output in case of alarm	1234 G1	(G1 = 10 secs., G2 = 20 secs., G3 = 30 secs., G4 = 1 min, G5 = 2 mins, G6 = 4 mins, G7 = 8 mins, G8 = 16 mins og G9 = constant.) Sets the relay output to activate on alarm on an input. Output is determined by zone.
Output follows state on input	1234 GA	Indicates that the output follows the corresponding input if text is added. Notice: input signal has higher priority than command S0 (S + zero) and B0 (B + zero)
Deactivate output in case of alarm	1234 G0	Output is not activated in case of alarm (G+null)
Add macro 0 for return of temperature	1234 M0 TEMP <V1 R>	The unit returns value on analogue 1 (e.g. temperature) when a text message with the word 'TEXT' is sent ('1234' omitted in macros).

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Additional help: see the manual on the CD or on [www.profort.com](http://www.profort.com)

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### Control with call from telephone

Call the unit. Press 1234 (password) when the connection is established, and await two 'beeps'. Press the desired code and hang up.

Code examples:

*00 (*01 - *03 for output 1-3)	Pulses output 0 for 10 secs.
*10 (*11 - *13 for output 1-3)	Opens output 0
*20 (*21 - *23 for output 1-3)	Closes output 0
0 (1-9 for macro 1-9)	Performs macro 0

If acknowledgment of an alarm is wanted, it needs to be sent as telephone call or call with DTMF tones. It is not possible to acknowledge alarms sent as text message.

To acknowledge an alarm: Wait for the beep after the message, then press # on the phone keypad. The unit hangs up and the alarm is terminated. Thus the message is not sent to the following in the receiver list.

## CONTROL

### Control with text message

Connect/disconnect the unit	1234 ON	GSM unit is connected, diode flashes lazily every 2nd sec.
	1234 OF	GSM unit is disconnected, diode flashes briefly every 2nd sec.
Activation of output x	1234 S0	Closes output 0. (S0..S3)
	1234 B0	Breaks output 0. (B0..B3)
	1234 P0	Pulses output 0 for 10 secs. (P0..P3)
Download	1234 OK	Downloads information about GSM transmission power and battery level Example: OK>>>OK SQ: xx%  xx = transmission power in percentage. 25 % is smallest acceptable value
	1234 V1 R	Downloads measurements on analogue input 1. (V1 .. V2)
Connection to the Internet	1234 EH USERNAME	GPRS traffic starts
	1234 EH	GPRS traffic stops

### Additional control

The unit can also be controlled by use of the PC program and all functions can be controlled directly on the Internet.

On the print (in the upper left corner) there's a button with the following three functions:

1. If button is pressed down while power supply is connected, a "beep" is heard after 7 secs. This resets the multiGuard DIN9 to **default settings**.
2. If button is pressed down during normal operations a "beep" is heard after 7 secs. If button is released immediately hereafter, **macro 1 is performed**. If no function has been saved on macro 1, nothing happens.
3. If button is pressed down after 7 secs., an additional "beep" will be heard after 14 secs. The **'sabotage'** alarm is hereby activated.

See more in the manual or log on Internet management via [www.profort.com](http://www.profort.com)

## VOICE MESSAGE

### Record messages

**NB! It is important that the unit is within earshot whilst programming, since you have to wait for a 'beep' of acknowledgment from the unit when recording messages!!!**

1. Call the unit and await one or two tones
2. If one tone is heard, then type password (e.g. 1234). In case of wrong password the unit disconnects and you have to call again
3. If two tones are heard, the password is correct or the SIM card PIN code is deactivated
4. Enter '#' and the number of the message you want to record, e.g. #8 (for general message). See additional codes in the table below
5. Await 1 tone from the telephone and after approx. 3 secs. a 'beep' from the unit
6. Record message of max. 3 secs. After 6 secs. the unit emits a 'beep' and the message is saved
7. Wait an additional 6 secs. and two tones are heard
8. The message has now been recorded and the call may be ended or a new voice message recorded, e.g.:
9. Enter #1 (voice message for input 1)
10. Await a tone from the telephone and after approx. 3 secs. a 'beep' from the unit
11. Record a message of max. 3 secs. After 6 secs. a 'beep' is heard from the unit and the message is saved
12. Wait an additional 6 secs. and two tones are heard from the telephone
13. Repeat step 9-12 for more messages
14. Hang up

Programming cable (SubD RS 232 plug) must not be connected whilst recording and/or testing voice messages!

When a voice message is received, you'll hear the general message first and after an additional 5 secs. the individual message is heard (from digital input, analog input or a basic alarm). If only general message has been recorded, this will be played twice.

The receiver can acknowledge a voice message with #. This must be done immediately after playback of the last message and tone from the telephone. If this isn't done, the unit will continue to the next receiver on the list.

#### Codes for recording of voice messages

#8 General message 3 secs.

#### Digital inputs

#0 for input 0 3 secs.  
#1 for input 1 3 secs.  
#2 for input 2 3 secs.  
#3 for input 3 3 secs.  
#4 for input 4 3 secs.  
#5 for input 5 3 secs.  
#6 for input 6 3 secs.  
#7 for input 7 3 secs.

#### Analog inputs

#91: analog input 1 3 secs.  
#92: analog input 2 3 secs.

#### System alarm

#94: power failure 3 secs.  
#95: power ok 3 secs.  
#96: sabotage 3 secs.  
#97: connecting 3 secs.  
#98: disconnecting 3 secs.

## SPECIFICATIONS

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### **Power supply**

230V AC min. 0,1A

12-24V AC/DC min 0,5 A

NB! Supply must not come into contact with the ground.

### **Usage**

Approx. 30 mA when resting (supplied with 12 V)

5 W supplied with 230 V

### **Outputs**

Max. 6 A at 230V AC

Max. 6 A at 35V DC

10VDC output supply. Max 100 mA.

### **Inputs, digital**

Max. 1V, 2 mA (GND)

Min. 18V max 30 V (24V DC)

### **Inputs, analog**

0-10V DC

0/4-24mA

PT-100

Profort temperature sensor (007995)

### **Serial connections**

RS232 for setup or connection to e.g. PLC Modbus for external units, e.g. energy meters

### **Counter**

Max. 10Hz. with 6 digits. Programmable initial value. Optional alarm threshold with reset

### **Dimension**

9 DIN-modules

157x86x57 mm

Weight: 360 g.

### **Temperature**

- 20 °C - +55 °C

### **Voice memory**

16 messages of 3 secs. each

### **Antenna**

1 internal antenna for GSM modem. Possibility of adding external antenna (Profort-no. 369003) with 2,5 m cable and 5 m extension (Profort no. 301110) or 10 m extension (Profort no. 301111)

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## OTHER PRODUCTS IN THE SERIES

### multiGuard® DIN6

- 2 relay outputs
- 4 digital inputs
- 1 analog input
- 230V/12-24V power supply (acquisition)
- 9V re-chargeable back-up battery (acquisition)
- Connector to external IR-transmitter
- DIN-rail with six modules
- Modbus interface



### multiGuard® Master RF

- 8 relay outputs
- 8 digital inputs
- 4 analog inputs
- Wireless 868 Mhz receiver
- 230 V / 12-24 V power supply
- 9 V rechargeable back-up battery (acquisition)
- Modbus interface
- IP-65 box
- Touch display for set-up and programming



### multiGuard® Remote IO

- 1 relay output
- 2 senders of infrared codes for heat pump control
- 3 digital inputs
- 1 built-in temperature and humidity sensor
- 1 recorder for infrared codes
- 12 VDC power supply (inclusive)
- 3,6 V Li-ion back-up battery (inclusive)
- Design box for wall mount
- Plug for external IR-transmitter



### IP-65 box for multiGuard® DIN4/6/9-series

- Waterproof box
- DIN-rail for 4/6/9 modules
- 3 PG inputs



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