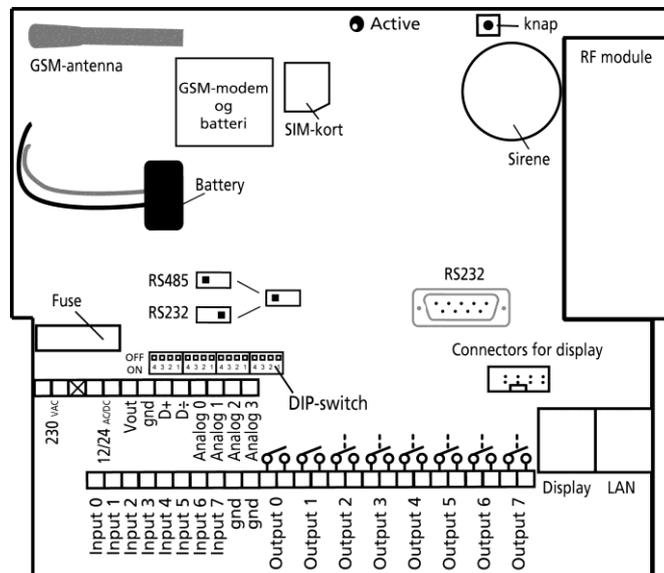# Data sheet for multiGuard Master RF

DESCRIPTION

The multiGuard Master RF GSM unit is adapted for remote controlled management, measurement and collection of technical alarms via the via 2G and 3G GSM network. Mounted in an IP65 box. Is able to control electrical functions by activation of relays via text messages, phone calls or the Profort portal on the Internet. Gives alarm as text message, email or DTMF call by influence of alarm inputs. Is able to measure e.g. temperature, pressure and humidity with analog measuring equipment, log the measurements, notify in case of voltage errors and when the voltage returns.

The unit has an expanded analog log, making it possible to save analog measurements for up to 4 years. Option for connecting a 9V rechargeable battery and a 10VDC output for supply of external units, such as Modbus components. Built-in touch-display for performing set-up, and where alarms and measurements can be displayed. Built-in wireless 868 MHz module for receiving wireless alarms and measurement results.

Particularly suitable for:

- Cold and freeze storage
- Alarm, slurry tanks (4 tanks)
- Heat control
- Level measuring

- Alarm as text message for 25 receivers
- Logging of temperature
- Built-in clock and calendar for light control and alarm
- 868 MHz module for receiving wireless signals

SPECIFICATIONS

Relay outputs	**8** Max load: 6A at 230VAC/35VDC

Digital inputs	**8**
Both gnd/24VDC activation	Yes
Digital input high (gnd)	Interrupted or min 3VDC – max 12VDC
Digital input low (gnd)	Max 1V, 2mA
Digital input high (24VDC)	Min 18VDC – max 30VDC, 2 mA
Digital input low (24VDC)	Interrupted or max 1VDC
Galvanic separation	Yes
Input 0	Alarm or connection/disconnection (pulse or level from bypass switch)
Input 1	Alarm or pulse/minute counter (max. 10 Hz, 6 numbers)
Input 2	Alarm or pulse counter (max. 10 Hz, 6 numbers)
Input 3	Alarm or pulse counter (max. 10 Hz, 6 numbers)

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Analog input	4
Input 0 - 3	0-10 V, 0/4-20 mA, PT100 or Profort temperature sensor PTC or as digital input

868 MHz module	Receives signals from 128 wireless transmitters on 868MHz

Supply	230V AC/DC, 12-24 V AC/DC, ±10% min. 0,5 A. Supply must not be grounded.
Power supply included	No
Battery	Internal rechargeable NiMH (acquisition)
10V/DC outlet	Yes, max 100mA

Dimensions	
Design	IP65 box
Size	215x185x95mm
Weight	1200g

Power consumption, typically	
– idle mode	30 mA (12VDC supply)
– all 8 relays activated	120 mA (12VDC supply)

Antenna	
Internal	Interior
External	Mounting via SMA-plug option

Temperature	
Operation	÷20-55 °C
Stock	÷30-65 °C

Other connections

Connection to mobile network via 2G or 3G	Alarm shown on display
RS232 for connection with PC or PLC	Holder for micro SIM card
RS485 serial communication with Modbus protocol	Plug for battery

FUNCTIONS

Alarm receivers

Number: 25 (up to 8 zones/areas)	Text message
Test button for sabotage and reset	E-mail (dependent on operator)
Call with DTMF tones	Via internet
SIA-IP protocol	Set-up only for acknowledged users
Alarm for latest user	Easy change of receiver order
Acknowledgement for alarm reception w/ call from DTMF tones	Powerful siren by alarm

Log

Analogue log, measurement every ½ hour	150.000 (e.g. more than 4 years of history for two inputs)
Event log, alarm and set-up	256

Programming

PC Program	Quick set-up connected via RS232 or GPRS/Internet
Text message	Send text from mobile telephone
The Profort web-portal	via www.multiguard.dk eller via www.setup.masterview.dk

Other functions

Macros for commands:	20
Calendar:	36 activities (every weekday, specific date)
Delayed connection:	30 sec. connection/disconnection in surveilled zone
Filter time on inputs:	10 sec. – 64 hours
Alarm only every 15 min.	Used with e.g. PIR movement sensor
Power alarm:	Never, immediately of after 30 min. (9V ACCU is required)

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