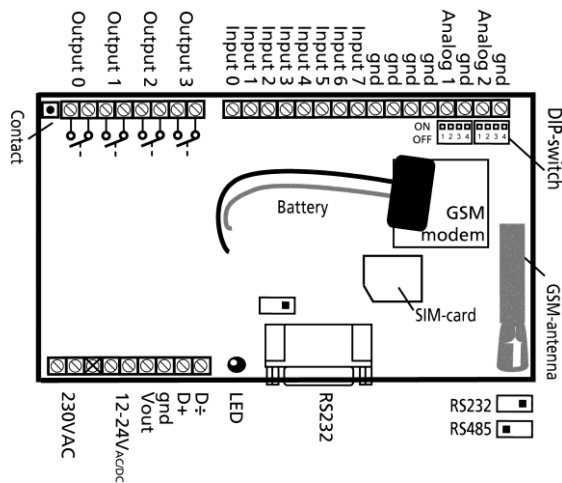


Data Sheet multiGuard DIN9 3G



DESCRIPTION

The 9 modules GSM unit is adapted to remote controlled management, measurement and collection of technical alarms via 2G and 3G GSM network. Developed for panel mounting on DIN-rail. 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, voice message or DTMF call on influence of alarm inputs. Is able to measure e.g. temperature, pressure and humidity with analogous measuring equipment, log the measurements, notify in case of voltage errors and when voltage returns.

9 modules is the larger unit with combined 230VAC / 12-24VAC/DC power supply. The unit has the option of connection with a 9 V rechargeable battery and has a 10VDC outlet for supply of e.g. external units. The unit has a built-in voice message module distributed to each input and alarm type.

Particularly suitable for:

- Irrigation
- Alarm, slurry tanks
- Light control
- Control of pump wells
- Alarm as text message and voice message for 25 receivers
- 4 relay outputs for activation of e.g. contactors
- Management via the Profort web-portal and app for smartphone
- Built-in clock and calendar for light control and alarm

SPECIFICATIONS

Relay outputs	4	Max strain: 6A ved 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)	
Analogue input	2	
Input 1 and input 2	0-10 V, 0/4-20 mA, PT100, Profort temperature sensor PTC or as digital input	
Supply	230V AC/DC, 12-24 V AC/DC, ±10% min. 0,5 A. Supply must not be	

Power supply included	grounded.
Battery	No
10VDC outlet	Internal rechargeable NiMH (acquisition) Yes, max 100mA

Dimensions

Design	DIN-rail – 9 modules
Size	157x86x57mm
Weight	360g

Power consumption, typically

– rest	30 mA (12VDC supply)
– all 4 relays activated	80 mA (12VDC supply)

Antenna

Internal	Interior
External	Mounting via SMA-plug option

Temperature

Operation	÷20-55 °C
Stock	÷30-65 °C

Other connections

RS232 for connection with PC or PLC
RS485 for connection with e.g. MODBUS
Plug for battery
Plug for SIM micro-card

FUNCTIONS

Alarm receivers

25 (up to 8 zones/areas)
Text message
Voice message
E-mail (depending 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 of alarm reception in case of call and '#-key' with DTMF-tones

Log

Analogue log, measurement every ½ hour	24.576 (e.g. 16 months history for one input)
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
Profort web-portal	via www.multiguard.dk

Other functions

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