



GUARD PRO II

Communication processor GSM PRO



GUARD PRO II

Application areas



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RILEY & Co., Inc new GUARD PRO II offers a remote control and maintenance solution which allows you to create a decentralised system or monitor and control devices.

Changes to the eight digital (24 V DC) / analogue (0 to 10 V) inputs can be notified via SMS text message, e-mail or both. The digital outputs can be controlled via SMS text message.

In large systems, where many alarms or status messages are monitored centrally from diverse field monitors, the GUARD PRO II ability to send e-mail notifications provides an optimal solution.

The software is clearly designed and simple to understand which makes the GUARD PRO II easy to set-up. The GUARD PRO II can also be configured online after it has been installed and commissioned. It is also possible to update the firmware over the internet.

The user can read the log files of the inputs. This allows a user to get a clear overview of the situation and optimise a process for improved efficiency when needed.

The GUARD PRO II can also be used for transportation sector applications thanks to the wide range of power supply voltages available (10 to 30 V DC).

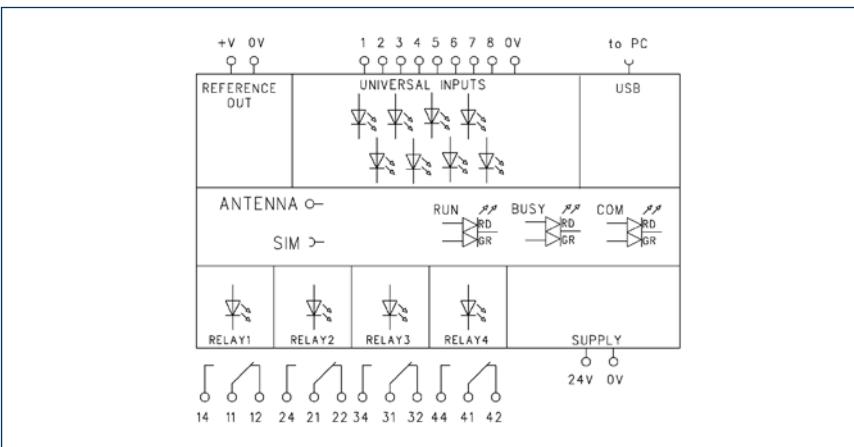
The built-in maintenance free supercap capacitor, enables the GUARD PRO II to inform the recipient via an SMS text message in the event of a power failure.

The following is a list of possible applications where the GUARD PRO II can be used as a monitoring or control unit: water pumping stations, sewage pumping stations, building automation systems, photovoltaic devices, biogas plants.

Our ideas – your advantages

- TS 35 or direct mounting
 - Enclosed housing, width of 88 mm
 - Screw connection
 - Status LEDs on the GUARD PRO II module
- LED 'Run' displays module activity**
Blinking = starting up
On = module running
Off = no power supply
- LED 'Com' displays activity on the GSM network**
Blinking = roaming GSM network
On = connection with GSM network
Off = no connection with GSM network
- LED 'Busy' displays activity on the modem**
On = modem is busy
- LED status displays for all inputs and outputs**

GUARD PRO II



Typ	Qty.p.pck.
Cat. no.	1
Size (L x W x H) with TS 35 x 7.5 without Antenna	
Weight	
Input specifications	
8 multi-function analog/digital inputs	0..10 V / 24 V DC (10..30 V DC)
Resolution / accuracy (0..10 V)	20 mV / ±(20 mV+0,3%*)
Input resistance (0..10 V)	46 kOhm
Input current digital inputs (typ.)	@10V: 0,3mA / @24V: 0,8mA / @30V: 1,0mA
UI minimal pulse length	800 ms (while not transmitting)
Input threshold digital Inputs	Low < 2V / High > 4V
Output specifications	
4 relay outputs	4 x CO Kontakt, 250 V ~
Rated current / Inrush current (ohmic load)	5 A / 5 A
Max. power rating	1200 VA at 240 V AC, 5 A
Life span at ohmic load	Electrical: at max. load: > 1,5 × 10 ⁵ cycles. Mechanical: 15 × 10 ⁶ cycles
Max. switching frequency	6 min ⁻¹ at rated current, 1200 min ⁻¹ at no load
Contact material / test voltage	AgNi / 4 kV
GSM Data	
Frequency	850/900/1800/1900 MHz
Sensitivity	-108 dBm @ 850/900 MHz / -107dBm @ 1800/1900 MHz (typical)
Transmit power	Class 4 (2 W@850/900 MHz), Class 1 (1 W@1800/1900 MHz)
Antenna	50 Ohm impedance, SMA connector
General Data	
Module power supply	10..30 V DC
Module current (max)	275 mA DC @ 24V DC
Backup power	Internal maintenance free supercap capacitor
Operating / storage temperature	-20°C...+50°C / -20°C...+70°C
DIN-VDE regulations	Low Voltage Directive (LVD) 2006/95/EC, according requirements of EN 50178
Electromagnetic properties	EMC Directive 2004/108/EC, according requirements of EN 55011 and EN 61326-1
Frequency spectrum	R&TTE 1999/5/EC according requirements ETSI EN 301-511 V9.0.2
Connection type	Screw
Connection cross-section	0,2 - 2,5 mm ²
Stripping length	6 mm
Material: Housing / Connecting terminals	Noryl / Polyamid 6.6
Flammability class per UL94	V0
Protection class	IP20
Installation guidelines	Refer to manual
Accessories	
Module Antenna	GSM-Antenna
Cat.no.	1
GSM External antenna	16101.2
Cat.no.	1
USB Programming cable	GSM-SMA-2,5m
Cat.no.	1
	16061.2
	GSM-USB-cable
Cat.no.	1
	16103.2

*of measured value