CONTA-ELECTRONICS

GSM-PRO

Communication processor GSM-PRO

GSM PRO

CONTA-CLIP's new GSM-PRO 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 **GSM-PRO**'s ability to send e-mail notifications provides an optimal solution.

The software is clearly designed and simple to understand which makes the **GSM-PRO** easy to set-up. The **GSM-PRO** 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 **GSM-PRO** 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 **GSM-PRO** to inform the recipient via an SMS text message in the event of an power failure .

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

Application areas

CONTA-CLIP Verbindungstechnik GmbH
Otto-Hahn-Str. 7 · D-33161 Hövelhof, Germany
Phone +49(0)5257.9833-0 · Fax +49(0)5257.9833-33
info@conta-clip.de · www.conta-clip.com

Our ideas – your advantages

GSM-PRO

- TS 35 or direct mounting
- Enclosed housing, with width of 88 mm
- Screw connection
- Status LEDs on the **GSM-PRO** module

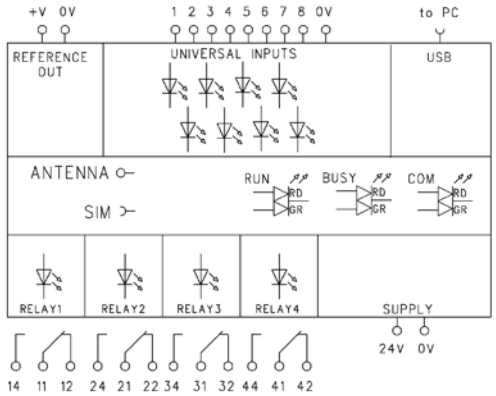
LED 'Run' displays module activity
Blinking = starting up
On = module running
Off = no power supply

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

GSM-PRO



Typ	GSM-PRO	Qty.p.pck.
Cat. no.	**16099.2**	1
Size (L x W x H) with TS 35 x 7.5 without Antenna	88 x 95 x 77 mm	
Weight	275 g	
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 x 10^5 cycles. Mechanical: 15 x 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	1
Cat.no.	**16101.2**	
GSM External antenna	GSM-SMA-2,5m	1
Cat.no.	**16061.2**	
USB Programming cable	GSM-USB-cable	1
Cat.no.	**16103.2**	

*of measured value