

16408.2 GSM-PRO2E-GPS



Compact reporting system for mobile networks to monitor analogue and digital values as well as remotely switch relay outputs, incl. GSM positioning, Mounting type: Mounting rail TS 35, Supply voltage range: 10 - 30 VDC

RAL: 9018

Business data

Article number	<u>16408.2</u>
Article name	GSM-PRO2E-GPS
GTIN (EAN)	4044211219024
Packaging unit	1
Quantity unit	PC
Weight per piece (not including packaging)	197 g
Weight per piece (including packaging)	232 g
Unit of weight	G
Customs number	85176990
Country of origin	NL
Product description	Controller module
Colour	Light grey

16408.2 GSM-PRO2E-GPS

Technical data

Dimensions

Length	95 mm
Width	88 mm
Height	65 mm

Connection data

Connection principle	Screw connection
Wire cross-section single core (rigid), min.	0.2 mm ²
Wire cross-section single-core (rigid), max.	2.5 mm ²
Wire cross-section stranded, min.	0.2 mm ²
Wire cross-section stranded, max.	2.5 mm ²
Stripping length	6 mm
Torque	0.4 Nm

Output data

Number of outputs	4
Switching voltage / switching voltage max.	250 / 250 VAC
Continuous current max. / Inrush current max.	5 / 5 A
Switching capacity, max.	1200 VA
Switching frequency, max.	6/min kHz
Electrical lifespan (AC1)	1,5x10 ⁵
Mechanical lifespan	15x10 ⁶
Relay contact	1CO

Input data

Number of channels	10
Input signal U/I, max.	30 V / -
Input resistance U/I	80K / 500 Ohm
Resolution U (0 ... 10 Vdc)	20mV / ±(20mV+0,3%)
Resolution I (0 ... 20 mA)	40 µA / ± (40 µ + 0,3%)
Pulse length, min.	500 ms
Threshold digital inputs	Low <2, High >4V
Counter input (pull-down)	1000 pulses/s, max. pull-down res. 24 kOhm

Materials

Contact material	AgNi 90/10
Working temperature, min.	-20 °C
Working temperature, max.	50 °C
Relative humidity, max.	80 (non-condensing) %

16408.2 GSM-PRO2E-GPS

Technical data

GSM data

SIM card	Nano SIM
2G	Quad-band GSM bands: 850, 900, 1800 and 1900 MHz
3G	Five-band UMTS (WCDMA/FDD) bands: 800, 850, 900, 1800, 1900 and 2100 MHz
Antenna GSM	50 ohm, SMA plug

GPS data

GPS frequency	1575-1587 MHz
Time to first fix (@ -140 dBm)	Hot < 2s, warm < 35s, cold < 46s
Antenna GPS	50 ohm, SMA plug
Voltage active antenna	3 V @ RF plug

Further technical data

Power supply	10-30 VDC -
Current consumption	275 @ 24 VDC mA
Protection class	IP20
Storage temperature, min.	-20 °C
Storage temperature, max.	70 °C
Mounting	Mounting rail TS35 / direct mount
Backup power	Internal maintenance-free supercap capacitor
Electromagnetic properties	Directive 2014/30/EC in compliance with EN 55011 and EN 61326-1
Frequency spectrum	RED 2014/53/EC in compliance with ETSI EN 301-511 V9.0.2 Hz
Number of expansion modules, max.	15

BUS data

Bus protocol / interface	Modbus RTU / RS485, half-duplex, non-insulated
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Environmental Product Compliance

REACH Conform	yes
REACH Reference date	2024-01-23
REACH Candidate Substance Note	No
RoHS Conform	yes

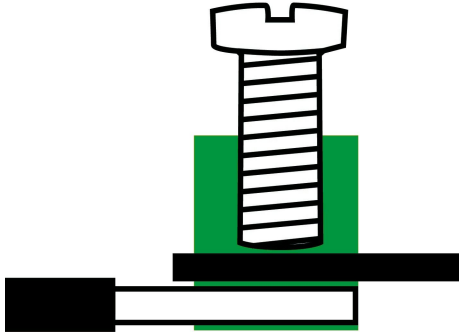
Approvals

Standards and regulations

Standards / specifications

Low-Voltage Directive (LVD) 2014/35/EC, in compliance with EN 50178. EMC Directive 2014/30/EC, in compliance with EN 61326-1

Media



16408.2 GSM-PRO2E-GPS

Accessories

GSM-PRO I/O-Modules



GSM-PRO I/O digital input module, 10 digital inputs 24V with LED display, Mounting type: Mounting rail TS 35, Supply voltage range: 20 V - 28 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16375.2</u>	GSM-PRO-10DI	4044211207755	1 ST



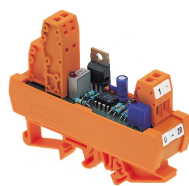
GSM-PRO I/O analogue output module, 4 analogue outputs 0 - 10V, Mounting type: Mounting rail TS 35, Supply voltage range: 20 V - 28 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16376.2</u>	GSM-PRO-4AO	4044211207762	1 ST



GSM-PRO I/O analogue input module, 8 analogue inputs 0 - 10 V, 0 (4) - 0 mA, NTC, RTD (PT1000 / NI1000), Mounting type: Mounting rail TS 35, Supply voltage range: 20 - 28 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16377.2</u>	GSM-PRO-8AI	4044211207779	1 ST



Signal converter for converting voltage/current signals to an analogue standard signal, Screw connection, Mounting type: Mounting rail TS 35, Supply voltage: 24 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16374.2</u>	CAE/I-I/020-010	4044211207502	1 ST

Antennas



GSM UMTS antenna with omni-directional characteristic, SMA round plug, Connecting cable length: 3 m

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16061.2</u>	GSM-ANTENNA-EXTERNAL-SMA-3M	4044211145972	1 ST

16408.2 GSM-PRO2E-GPS

Antennas



GSM UMTS antenna with omni-directional characteristic, SMA round plug, Connecting cable length: 5 m

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16172.2</u>	GSM-ANTENNA-EXTERNAL-SMA-5m	4044211187002	1 ST



GSM omni-directional antenna, 90° with SMA round connector

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16379.2</u>	GSM-ANTENNA-90°	4044211207793	1 ST



Combined cellular/GPS antenna with omni-directional, SMA round connector (GSM/UMTS) and R-SMA round connector (GPS), connection cable length 3 m

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16381.2</u>	GSM-ANTENNA-EXTERNAL-GSM+GPS-SMA-3M	4044211207816	1 ST



GSM UMTS antenna with omni-directional characteristic, SMA round plug, Connecting cable length: 10 m

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16173.2</u>	GSM-ANTENNA-EXTERNAL-SMA-10M	4044211187019	1 ST

Connection cables



USB 2.0 connection cable [1 USB 2.0 plug A - 1 USB 2.0 plug Micro-B] Cable length: 1.5 m, gold-plated plug contacts, colour: black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16382.2</u>	GSM-USB-MICRO-cable	4044211207823	1 ST