



Compact signaling system for mobile networks (up to and including 4G) to monitor analog and digital values as well as remotely switch relay outputs, Mounting type: Mounting rail TS 35, Supply voltage range: 10 - 30 VDC.

**RAL:** 9018

### Business data

Article number	<u>16455.2</u>
Article name	GSM-PRO2E-4G-EU
GTIN (EAN)	4044211222512
Packaging unit	1
Quantity unit	PC
Weight per piece (not including packaging)	202 g
Weight per piece (including packaging)	262 g
Unit of weight	G
Customs number	85176990
Country of origin	NL
Product description	Controller module
Colour	Light grey

### 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 <sup>2</sup>
Wire cross-section single-core (rigid), max.	2.5 mm <sup>2</sup>
Wire cross-section stranded, min.	0.2 mm <sup>2</sup>
Wire cross-section stranded, max.	2.5 mm <sup>2</sup>
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 <sup>5</sup>
Mechanical lifespan	15x10 <sup>6</sup>
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) %

## 16455.2 GSM-PRO2E-4G-EU

### 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
4G	LTE CAT1: Penta band 700 (Bd28)/ 800 (Bd20)/900 (Bd8)/1800 (Bd3)/2100 MHz (Bd1)

#### 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	2023-06-14
REACH Candidate Substance Note	No
RoHS Conform	yes

### Approvals

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#### Standards and regulations

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Standards / specifications

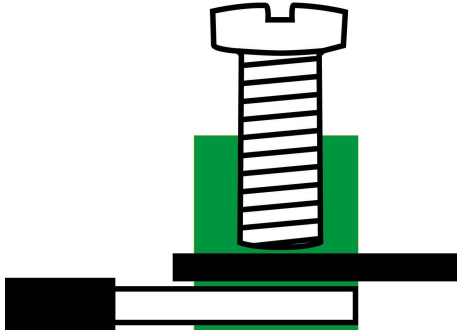
Low-Voltage Directive (LVD) 2014/35/EC, in compliance with EN 50178. EMC Directive 2014/30/EC, in compliance with EN 61326-1

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### Media

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### Accessories

#### GSM-PRO I/O-Modules



GSM-PRO I/O digital output module, 4 relay outputs 1 W, 250 V, 16 A (inrush 80 A), With LED display, Mounting type: Mounting rail TS 35, Supply voltage range: 20 - 28 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16378.2</u>	GSM-PRO-4DO	4044211207786	1 ST



GSM-PRO I/O digital output module, 4 relay outputs 1 W, 250 V, 16 A (inrush 80 A), With LED display, Mounting type: Mounting rail TS 35, Supply voltage: 12 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16444.2</u>	GSM-PRO-4DO-12VDC	4044211222147	1 ST



GSM-PRO I/O Modbus connection module, Mounting type: Mounting rail TS 35

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16458.2</u>	GSM-PRO-CON	4044211222543	1 ST



GSM-PRO I/O digital output module, 4 relay outputs 1 W, 250 V, 16 A (inrush 80 A), With LED display, Mounting type: Mounting rail TS 35, Supply voltage range: 20 - 28 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16378.2</u>	GSM-PRO-4DO	4044211207786	1 ST



GSM-PRO I/O digital output module, 4 relay outputs 1 W, 250 V, 16 A (inrush 80 A), With LED display, Mounting type: Mounting rail TS 35, Supply voltage: 12 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16444.2</u>	GSM-PRO-4DO-12VDC	4044211222147	1 ST

### Antennas

## 16455.2 GSM-PRO2E-4G-EU



GSM omni-directional antenna with SMA round connector (4G compatible)

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16450.2</u>	GSM-ANTENNA-4G	4044211222475	1 ST



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

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16451.2</u>	GSM-ANTENNA-EXTERNAL-4G-3M	4044211222482	1 ST



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

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16452.2</u>	GSM-ANTENNA-EXTERNAL-4G-5M	4044211222499	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