

# Data sheet

## 16454.2 GSM-PRO2-4G-EU



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

**RAL:** 9018

### Business data

|                                            |                   |
|--------------------------------------------|-------------------|
| Article number                             | 16454.2           |
| Article name                               | GSM-PRO2-4G-EU    |
| GTIN (EAN)                                 | 4044211222505     |
| Packaging unit                             | 1                 |
| Quantity unit                              | PC                |
| Weight per piece (not including packaging) | 108 g             |
| Weight per piece (including packaging)     | 149 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  | 36 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                             | 1                   |
| 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          | 2                                               |
| Input signal U/I, max.      | 30 V / -                                        |
| Input resistance U/I        | 80K / 500 Ohm                                   |
| Resolution U (0 ... 10 Vdc) | 20mV / $\pm(20\text{mV}+0,3\%)$                 |
| Resolution I (0 ... 20 mA)  | 40 $\mu\text{A}$ / $\pm(40\text{ }\mu + 0,3\%)$ |
| 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) % |

### 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 |
|--------------------------|------------------------------------------------|

#### Environmental Product Compliance

|                                |            |
|--------------------------------|------------|
| REACH Conform                  | yes        |
| REACH Reference date           | 2023-06-14 |
| REACH Candidate Substance Note | No         |
| RoHS Conform                   | yes        |

# Data sheet

## 16454.2 GSM-PRO2-4G-EU



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### Approvals

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#### Standards and regulations

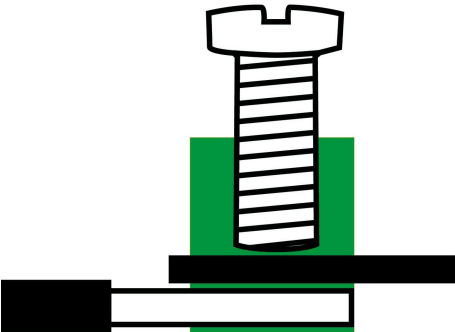
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Standards / specifications

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



### 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           |



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

## 16454.2 GSM-PRO2-4G-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           |