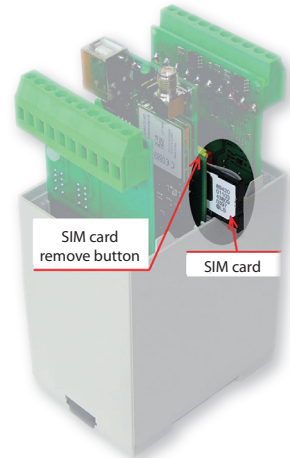




## GPRS Communication unit MEg202.2



### PURPOSE

In the basic design, the communication unit MEg202.2 unit provides remote transmission of binary inputs and commands and remote data transmission through GPRS network of mobile operators. The measured values from associated measuring instruments are transmitted with RS485 serial communication line. The communication unit implements standardized communication protocol according to ČSN EN 60870-5-104 and by this way it enables to include connected devices in a SCADA system either directly or through concentrators.

The unit MEg202.2 contains a processor that optimizes and controls the remote data transmission, communicates with the connected devices through the technology network, enables pre-processing of read data from measuring devices, supervises connected devices and in the case of an event automatically transfers information to a superior system.

The basic function settings of the unit are made at the factory. Eventual change of setting is possible using M202Param programme.

## TECHNICAL SPECIFICATIONS

Power:

$$+12\text{V} \pm 10\% / 200\text{mA} + 1.25 \times (I_{\text{CHAN1}} + I_{\text{CHAN2}})$$

$I_{\text{CHAN1}}$ ,  $I_{\text{CHAN2}}$  are currents that supply the devices connected to each channel

Working temperature:

-20°C to +60°C

Dimensions, weight, construction:

Length × width × height: 55 × 75 × 110 mm

Weight: 0,2 kg

Construction of the unit is conformable with installation on DIN rails, type TC 35.

GPRS communication:

GSM 850 / 900 / 1800 / 1900 MHz, GPRS class 10

Supported protocols UDP, TCP

Antennas:

GSM adhesive tape antenna 2,5 dB, 900 / 1800 MHz, cable 3 m

Antenna GSM Magnetic 50, Dual-band, 5 dB, vertical polarization, radiation H-360°, V-30°, antenna dimensions  $\varnothing 40\text{ mm} \times 300\text{ mm}$ , coaxial cable length 3 m, connector SMA(m)  $\varnothing 9\text{ mm}$ .

Antenna GSM Magnetic 50, Dual-band, 9 dB, vertical polarization, radiation H-360°, V-30°, antenna dimensions  $\varnothing 62\text{ mm} \times 420\text{ mm}$ , coaxial cable length 3,5 m, connector SMA(m)  $\varnothing 9\text{ mm}$ .

If necessary, it is possible to use 10 m RG58 extension cable.

Antenna GSM YAGI 120, Dual-band, 12 dB, vertical polarization, radiation H-250°, V-30°, antenna dimensions  $300 \times 200 \times 26,4\text{ mm}$ , coaxial cable length 10 m, connector SMA(m)  $\varnothing 9\text{ mm}$ , weight 0,86 kg.

Communication interface of the MEg202.2 unit:

Interface RS485, max. baud rate 115,2 kBd

Number of digital inputs - 5 (voltage 12 V from MEg202.2)

Number of outputs realized by relay switch contact - 2

(1 A / 250 V<sub>AC</sub>, 220 V<sub>DC</sub> / 62,5 VA<sub>AC</sub>, 30 W<sub>DC</sub>)

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### Manufacturer

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Edition: 03/2012