CMB-03 TELEMETRIC MODULE

CHARACTERISTIC FEATURES

The CMB-03 Telemetric Module is a battery powered universal and compact data transmission device with intrinsic safe circuits. The CMB-03 Telemetric Module can be directly connected to equipment inside the explosion hazard zone (zone I).
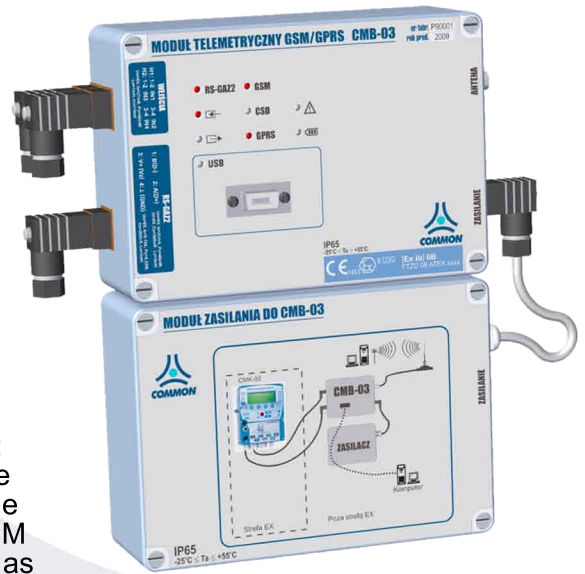
The main advantage of the CMB-03 is its power supply which eliminates extra costs related to providing external power line. For scheduled data transmission, standard power supply allows for 3 years operatioin without battery replacement. For continuous data transmision, lifespan of standard battery shortens to 2 months.

Optionally it is possible to use additional battery packs to increase the maintenance-free work time of the device.

A complete CMB-03 Telemetric Module comprises of 2 parts: telemetric module unit and battery pack unit. The telemetric module unit is responsible for communication between the user and the device which is being monitored. Transmission is performed via GSM network using CSD or GPRS modes. Transmission type, as well as time window are configurable by the user. The RS-GAZ2 intrinsically safe serial communication port suplies the monitored appliance with power during transmission. The module has 4 bistable intrinsically safe inputs. All inputs are able to send text messages (in SMS format) with predefined content.

Front panel includes USB diagnostic-communication port and LED diodes that inform about the state of the device. Additional features of the CMB-03 are: possibility of remote configuration and remote firmware upgrade.

The CMB-03 Telemetric Module's battery pack consists of 6 holders for popular alkaline D-size batteries (also designated as R20). Moreover, power unit is equipped in battery status control and fuse with indicator, what considerably facilitates maintenance and diagnostics.

MAIN FUNCTIONAL DATA

- **Remote access through CSD or GPRS**
- Transparent telemetric module for receiving protocols
- Handling SIM cards with or without PIN code
- GSM signal level monitoring on site
- **Programmable time windows of activity (accessibility) in order to save energy**
- Local port destined for configuration and diagnostics
- RS-GAZ2 intrinsically safe serial communication port supplies power to the monitored appliance during transmission
- Possibility of local and remote firmware upgrade
- **Indicators: RS-GAZ2, Rx, Tx, GSM, CSD, GPRS, BAT, ALARM, USB, USB-Tx, USB-Rx**
- RS-GAZ2 intrinsically safe interface; optionally RS-232
- 4 intrinsically safe bistable inputs with programmable functions
- Alarms&Events log
- **3 years of the maintenance-free work time of the device with basic battery set**
- Power supply level monitoring

MAIN TECHNICAL DATA

- Power supply: D-size (R20) alkaline batteries; option: 12V solar energy source or 230V power supply
- Ingress protection IP65
- Working conditions: -20°C ÷ +55°C
- Integrated GSM/GPRS 900/1800/1900MHz module
- FME antenna socket

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