

Technical specification

Mechanical parameters	
- dimensions (w x h x d)	(225 x 125 x 75) mm, excerpt connector and bushings
- weight	0,8 kg
- box material	plastic, ABS
Environment	
- protection class	IP65, according to EN 60529
- ambient temperature	-20 °C - +60 °C
- storage temperature	-30 °C - +85 °C
- climatic resistance	suitable for installation in outdoor surround
Intrinsic safety	
- classification	II 2G EEx ia IIA T3 ZONA 1, ZONA 2
Power supply	
- type of battery	lithium (Battery pack)
- battery lifetime	5 years, measuring of battery lifetime
- type of back-up battery	lithium
Digital inputs	
	6 inputs, may be set as a impulse or binary: <ul style="list-style-type: none"> binary inputs – max. 6 inputs, connecting of reed contact or non-potential output LF impulse inputs- max. 4 inputs, connecting of reed contact on nonpotential output, WIEGAND
Digital outputs	
	1 output, pulse and binary outputa (according to parametrization)
Interface for connection of corrector	
	by force of changable modules (specify in order): <ul style="list-style-type: none"> - serial line RS-232, - serial line RS485 - current line
Communication in GSM network	
	GSM modem - 900 MHz, 1800 MHz, GPRS – standard - 850 MHz, 1900 MHz – option

GPRS communicator

DATCOM-AMR2

(Automatic Meter Reading)



- Automatic Meter Reading system
- Communication in GSM/GPRS network
- Optionally to be installed in hazardous area
- Battery power supplied with management of energy consumption
- Option to connect gas volume corrector through serial interface
- 6 digital inputs (impulse, binary)
- 1 digital output
- Communication through IR interface
- Big size of data memory
- Easy inslatallation and easy maintenance

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Manufacturer: ELGAS, s. r. o., Ohrazenice

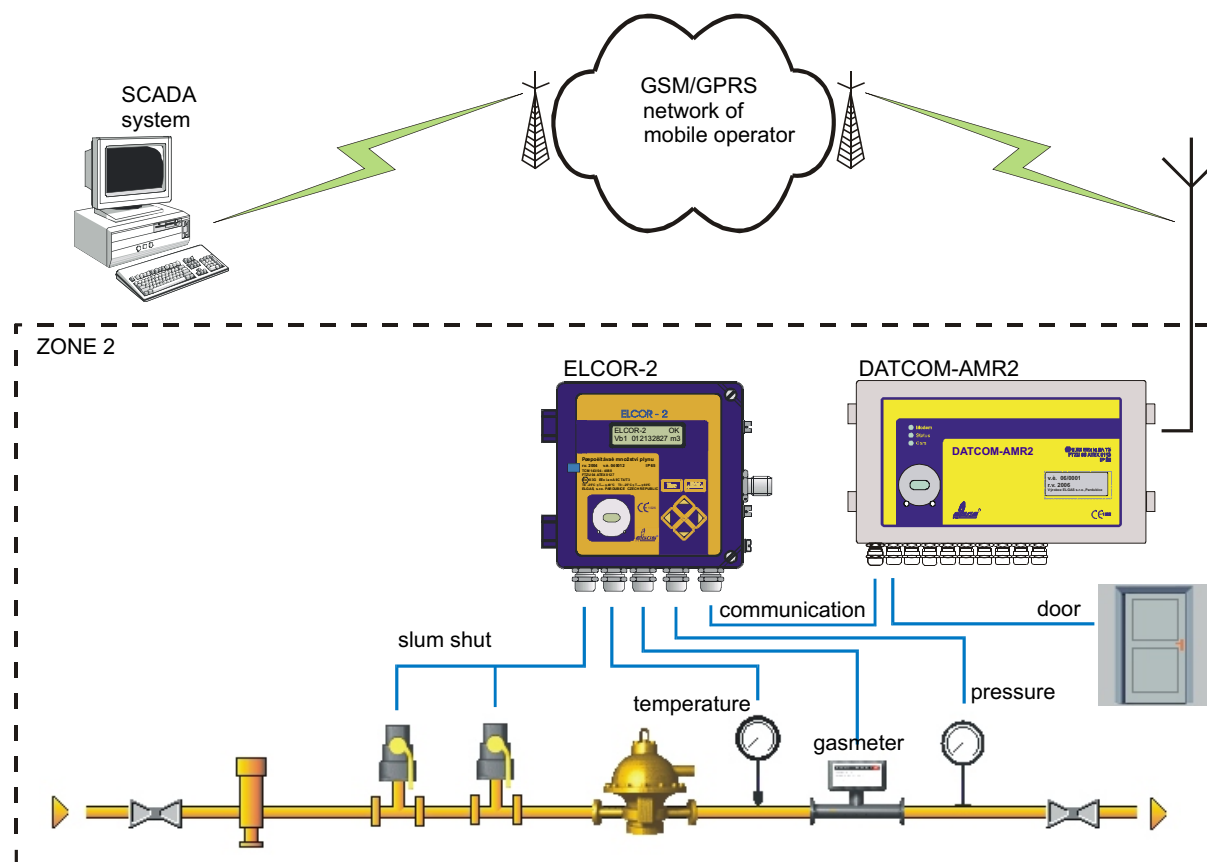
Device description

GPRS communicator DATCOM-AMR2 belongs to category of Automatic Meter Reading devices. DATCOM-AMR2 device meets the customer's needs for frequent data reading from the meters and following data transmission to the superior system.

DATCOM-AMR2 realizes two main functions - communication with superior system and collecting of data from connected correctors, impulse and state inputs. There is inbuilt GSM modem for communication with superior system, in mobile networks works in CSD regime (dial connection) and also GPRS modem

The device is powered from lithium batteries, which are inbuilt into battery pack. Thanks to using of the most modern components was the energy consumption minimize. In define regime device may operate for 5 years without battery exchange. It is also possible to exchange the battery in hazardous area. In case of battery disconnecting or changing are data and pulse inputs back up from back up battery.

Example of application



Function

Correctors may be connected to the device using interface RS-232, RS-485 or current line. Communication interface is realized via exchangeable modules. Correctors produced by ELGAS, s.r. o. company (such as ELCOR-94, ELCOR-2, uELCOR and microELCOR-2) may be connected to the device as well as correctors made by other companies.

The device is equipped with 6 digital inputs and one digital output. These inputs may be configured as a binary (e.g. for scanning of door contact or security slam shuts, etc.), or as impulse (for connecting of gas meter or corrector outputs). Maximal number of impulse inputs is 4. Digital output is configurable either as a binary or as impulse output.

Data from correctors and binary or pulse outputs are periodically read and saved to the archive. Also operational states of the device are monitored. According to configuration are evaluated alarm states. Content of archive is through GSM/GPRS communication transmitted to master system. The communication may also be in "transparent regime". Master system may in that regime communicate directly with correctors which are connected communicator and read out actual or archive values.

There are two possibilities of data transmission between communicator and superior system. Besides classic way of communication, when master system calls to device(so-called "call from above") is possible to initiate data transmission by the device (so called "call underneath"). During this type of communication may device initiate data transmission either because of alarm state or periodically in set time interval.

Options of DATCOM-AMR2 connection

