

DW 256 GEX

EXPLOSION-PROOF FIELD DATA DATA COLLECTION AND COMMUNICATION DEVICE

The DW 256 GEx is a device developed basically for the collection of data of gas industrial quantity measuring devices and correctors, and remote data communication. The device is capable of connecting to gas consumption measuring devices (plate-casing, membrane, rotary piston, turbine-driven) through an impulse input, and to gas industrial correctors through a serial line connection. The device has individual power supply, which ensures a high level of autonomy and multiple years of operation without maintenance. The consumption data are read automatically from the field measuring instruments by the device, stored in its memory, and then transmitted to the central database through a GPRS communication channel.

MAIN PROPERTIES

- Explosion-proof design (Exi)
- Quick and efficient installation
- Individual power supply
- Automatic data collection
- Protocol developed for the types of correctors available in the market
- Redundant GPRS communication
- Remote (over-the-air) firmware update
- Use of the open industry standard MQTT protocol

CHARACTERISTICS

- RS232 serial communication port for the connection of correctors
- 2 impulse inputs for the connection of gas-meters
- Tamper detection
- High-capacity internal memory
- Internal battery unit with 35–140 Ah capacity and intrinsically safe design
- Up to over 5 years of battery service life
- Parameterizable software
- Internal and external antenna connection options



WHERE CAN IT BE USED?

Typically **at the endpoints of natural gas networks**, from where the measured consumption data are sent to the **consumer monitoring** system using a highly reliable data transfer connection.

The device provides an optimal solution for the reading of the data of measuring devices at places where no network power supply is available.

OPERATION

The different types of correctors can be connected through a serial line using different communication protocols (30+).

The characteristic gas consumption, as well as pressure and temperature data and other parameters can be read in accordance with the settings.

The device is capable of receiving impulse signals of gas consumption measuring devices (plate-casing, membrane, rotary piston, turbine-driven) as well.

The impulses provided by the measuring devices are proportional to the gas quantity. The meter reading defined by adding the impulses together is sent to the central database at defined intervals.

The data are stored in the device.

INSTALLATION

The device is equipped with explosion-proof and IP66 protection: it can be installed both indoors and outdoors.

Typical application: outdoors, in the vicinity of the measuring device, with a wall-mounted design.

The connection of the corrector or gas-meter is performed using a short cable with a connector specific to the corrector.

COMMISSIONING

The device can easily be commissioned in possession of proper training. The device can be turned on using the jumper located under the cover.

When the appropriate position of the jumper is set, the device turns on automatically. The power-on state is confirmed by a status LED.

The counting of impulses is performed by activating the toggle switch. Before commissioning, the parameters of communication can be set using the parameterizable software.

The data is sent by the device to the central database in accordance with the frequency of communication set.



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