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Smart Gas Metering
OKO 5x05 Wireless Gas Meter Data Logger

📶 GPRS or SMS communication (LTE on demand)

📊 Data stored at configurable intervals for up to 20 years

⚙️ Easy to set up & retrofittable on existing meters

🌧️ Robust, suitable for outdoor environment

↪️ Optional replicated pulse output

🔋 Long life battery (up to10 years)

⚡ ATEX certified

Replication Pulse Output

Digital/Pulse Inputs

OKO 5x05 is a compact, battery-powered data logger, that can be easily installed on existing meters. On a daily basis, OKO transmits consumption profile with GPRS /SMS to backoffice server. Flexible configuration allows customization of logged data structures, and communication schedule for specific Gas Utility needs.

IMR Smart Gas Metering system that has been designed, developed and manufactured by AIUT consists of communication equipment, data loggers, sensors, as well as, backoffice software package for data acquisition, analytics and presentation.

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Smart Gas Metering
OKO 5x05 Wireless Gas Meter Data Logger

OKO 5x05 takes pulses from gas meter output: all type of diaphragm meters with pulser output, turbine & rotary gas meters with flying leads. Consumption profile, maximum flow and diagnostic data are stored in internal memory at fixed intervals, e.g. 30 min or 60 min. Incremental data are sent over GPRS/SMS to backoffice server at configured time e.g. daily at 6.00 am.

Functional and Technical Features

Data structures

- Configurable logging interval of 15, 30, 60 minutes or 24 hours
- Current state
- Daily maximum instantaneous and hourly flow, peak hours counter
- Tamper detection
- Ambient temperature

Communication

- GPRS/SMS data transmission of archive readouts, alarm messages
- User replaceable micro SIM card
- Telit xE 910 Family module
- Opto Port for easy diagnostics
- Remote firmware upgrade and access to archive data

Managment system

- Backoffice server with database for readouts, configuration and devices
- Supervising on-site installations
- Device handling and daily system maintenance
- Remote configuration of the device and firmware upgrade
- Easy interfacing to 3rd party systems

Environment

- Robust design
- Suitable for outdoor environment
- Operational temperature -20°C to +55°C
- IP66

Compliance

- ATEX certificate:

  II1G Ex ia IIB T3 Ga [for OKO 5x05-9***]

  II 3G Ex ic IIB T3 Ga [for OKO 5x05- F***]
- IECEx
- RTTE
- LVD
- EMC

Power supply

- Battery life exceeds 5 years
- User replaceable Lithium batteries

User friendly interface

User friendly structure of OKO 5x05 makes it intuitive and easy to set up. Visual state indication on Diagnostic LEDs

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