



## Smart Gas Metering

### OKO I505 Gas Meter Data Logger with Valve Controller



SMS/GPRS, LTE communication



Long life battery (10 years)



Hourly consumption recorded for up to 20 years



Built-in pulse sensor



Cut off valve, remote control



Extreme environment conditions



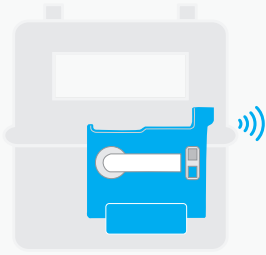
ATEX certified



Safe valve opening with leak detection procedure

**OKO I505** data logger, installed on Elster BK G4 gas meter with internal valve, makes a perfect Smart Gas Meter device for commercial and residential applications. The device registers readouts and transmits consumption data via mobile network to back office server. OKO I505 controls the internal valve and enables to close it remotely (on request of system operator) or automatically when the credit runs out.

**IMR Smart Gas Metering** designed, developed and manufactured by AIUT consists of communication equipment, data loggers, sensors as well as back office software package for data acquisition, analytics, payment process and presentation.



OKO I505 installed on gas meter



Archive data, Alarm notification



Data acquisition and presentation

The **data logger** enables to control the valve remotely, without accessing the customers' premises: on-demand valve closing and permission for safe manual opening. It enables to keep your customer loyal and supports timely payments. In prepaid mode **OKO I505** supports the user in controlling the credit and allows independent top-up by GPRS. When the credit runs out, the valve is automatically closed.

### Data structures

- 20 years of hourly consumption data. Configurable logging intervals (e.g. 15, 30 or 60 minutes)
- Daily readout: current device state, temperature, daily consumption, GSM summary
- Tamper detection: device removal, external magnet, exceeded max. flow or allowed temperature
- Daily readouts and configuration
- Server initiated query, command (valve cut-off)

### Environment

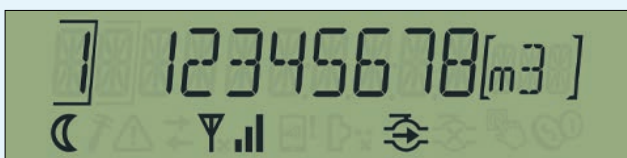
- Robust design, secured and sealed
- Suitable for extreme environment
- Operational temperature -40°C to +55°C
- IP67
- ATEX approved - Zone 0: II 1G Ex ia IIA T3 Ga  
- Zone 2: II 3G Ex ic IIA T3 Gc

### Communication

- SMS/GPRS, LTE
- User replaceable micro SIM card
- Standard Smart-Gas protocol, optionally 3rd party protocols
- Encrypted data transmission (AES-128)
- Event triggered alarms
- Over the air firmware upgrade

### User friendly interface

LCD display with two buttons for navigating menu: current meter value, customer and meter ID number, credit, payment mode, recommended amount and date of top-up



### Management system

- Back office server with database for readouts, configuration and device management
- Communication management and various protocols support for system with thousands of devices
- Browse current and historical data on the web and customer mobile application, e-mail summary reports
- Manage installation process, supervise and maintain high system performance
- Integrate payment transaction processing