



Smart Gas Metering

OKO X305 Wireless Gas Meter Data Logger



Mobile communication: GPRS/SMS



Data stored at configurable intervals for up to 20 years



Built-in pulse sensor



Long life battery



Robust design for outdoor operation



Bluetooth 5.2



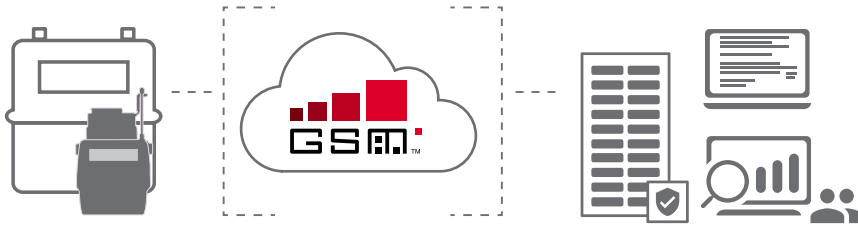
Optional replicated pulse output



ATEX/IECEX/UK Ex certified

OKO X305 is a battery powered, ATEX certified, wireless data logger, that can be easily installed on existing diaphragm meters. Received data from the past few months are stored and transferred over GPRS/SMS to acquisition server periodically (e.g. daily at specified time). Flexible configuration permits for customization of logged data structures and communication pattern for specific Gas Utility needs. Its Bluetooth 5.2 module allows data collection, on-site configuration and diagnostics with the use of dedicated mobile application.

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



OKO X305 installed on gas meter takes pulses from the meter (appropriate adapter on request - see below) and sends the data over GPRS/SMS to acquisition server. Subsequently, the data can be processed further to 3rd party data center.

Exemplary adapters



IC Rx15-Itron RF1



IC Mx15-Metrix GL



IC Cx15-Itron Cyble



IC Ex15-Elster BK,
Landis&Gyr model
750,1010



IC Ux15-for diaphragm/rotary
gas meter equipped with
pulse output or cable



IC Kx15-Kale Kalip

- All adapters are available in version with replicated pulse output

Functional and Technical Features

Communication

- GPRS/SMS data transmission
 - Quectel M66 module
 - quad-band: 850/ 900/ 1800/ 1900MHz
 - user replaceable micro SIM or eSIM
 - optional external SMA antenna
- Bluetooth® Low Energy
 - Bluetooth 5.2
 - 2,4GHz, +8dBm
- Opto port (IEC - 62056-21 standard) for local communication and easy diagnostics

Data structures

- Data logging interval: 60 minutes by default
- Current state: temperature, device status, GSM reception, battery state
- Daily maximum instantaneous and hourly flow
- Tamper detection: cover opening, device removal, external magnet
- In case of missing the data in the system OKO X305 resends the data for a period of one week

General Features

- Dimensions: H (w/o antenna) x W x D: 112mm x 91mm x 43mm
- Weight: 382 g

Environmental Parameters

- Operating temperature: -25°C to +55°C
- UV resistant
- IP 67

Compliance

- ATEX / UK Ex Regulations / IECEx:
 - Ex II 1G Ex ia IIB T3 Ga [for OKO X305-9*00]
 - Ex II 3G Ex ic IIB T3 Gc [for OKO X305- F*00]
- RED
- LVD
- EMC

User friendly interface

Graphic orientated display with single button control for current readout presentation, extensive diagnostics and easy installation

Power supply

- User replaceable long life MnO₂ battery
- Battery lifetime: up to 10 years (depending on communication pattern)
- OKO X305 is able to provide battery level and estimated lifetime