

# Smart Gas Metering OKO XAOS Wireless Gas Me OKO XA05 Wireless Gas Meter Data Logger



**OKO XA05** is a battery powered, ATEX & IECEx 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 NB-IoT 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.

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.





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OKO XA05 installed on gas meter takes pulses from the meter (appropriate adapter on request - see below) and sends the data over NB-IoT to acquisition server. Subsequently, the data can be processed further to 3rd party data center.

### **Exemplary adapters**









Landis&Gvr model

750,1010



gas meter equipped with

pulse output or cable



IC Rx15-Itron RF1

IC Mx15-Metrix GL

IC Cx15-Itron Cyble

• Other types of adapters are available on request.

• All adapters are available in version with replicated pulse output.

## **Functional and Technical Features**

#### Communication

- NB-IoT data transmission
- Ouectel BC66 module
- User replaceable micro SIM or eSIM
- Opto port (IEC 62056-21 standard) for local communication and easy diagnostics
- Optional external SMA antenna

#### Quectel BC66 module

- Worldwide frequency bands: B1/B2/B3/B4/B5/B8/B12/ B13/B17/B18/B19/B20/B25/B28/B66
- Approvals: GCF (Global), CE (Europe), FCC/PTCRB (North America), IC (Canada), KC (South Korea), NCC (Taiwan), JATE/TELEC (Japan), RCM (Australia), NBTC (Thailand), IMDA (Singapore)

#### **Environmental Parameters**

- Operating temperature:
- -40°C to +60°C [OKO XA05-9\*00 and OKO XA05-8\*00] -40°C to +70°C [OKO XA05- F\*00 and OKO XA05- E\*00]
- UV resistant
- IP 67

#### Compliance

- ATEX certificate: II1G Ex ia IIB T3 Ga [OKO XA05-9\*00 and OKO XA05-8\*00] II 3G Ex ic IIB T3 Ga [OKO XA05- F\*00 and OKO XA05- E\*00]
- IECEx FTZU 17.0018X
- RED LVD EMC

#### General Features

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

#### Power supply

- User replaceable long life battery (2xA LiMnO<sub>2</sub> or 1xD LiMnO<sub>2</sub>)
- Battery lifetime: up to 10 years (depending on communication pattern)
- OKO XA05 is able to provide battery level and estimated lifetime

#### User friendly interface

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

#### **Data structures**

- Hourly data logging by default and other configurable intervals on request
- Current state: temperature, device status, GSM reception, battery state
- Daily maximum instantaneous and hourly flow
- Archive data & alarms
- Tamper detection: cover opening, device removal, external magnet
- In case of missing the data in the system OKO XA05 resends the data for a period of one week

