



# Smart Gas Metering

## OKO x4A5 Wireless Gas Meter Data Logger



Worldwide coverage of NB-IoT bands



Bluetooth 5.2



Built-in pulse sensor



ATEX / IECEx / UK Ex certified (zone 0, gas group C)



Long life battery



Robust design for outdoor operation



Optional replicated pulse output



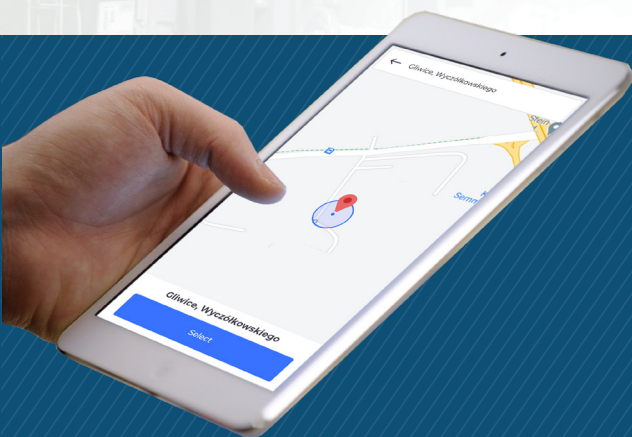
Accelerometer technology



## Gas meter readout has never been easier with **OKO x4A5!**

This highly reliable, battery powered data logger is designed to operate on various diaphragm gas meters. It monitors multiple site parameters (e.g. meter readouts, consumption data, alarms) and securely transmits them over NB-IoT network to an acquisition server at regular intervals. Designed and manufactured in accordance with ATEX directive, **OKO x4A5** can be safely used in environments or atmospheres that may be potentially flammable or explosive. Its Bluetooth 5.2 module allows data collection, on-site configuration and diagnostics. To fully control the OKO you only need a smartphone with dedicated SITA application.

OKO x4A5 is the main element of **IoT Ecosystem** - an open communication platform designed, developed and manufactured by AIUT that incorporates all tools ensuring efficient and high system performance, maintenance of IoT devices and flawless connectivity.



### SITA application - virtual LCD display

*Full control of the device at your fingertips*

- No more complex button pressing
- User friendly mobile application for readout and configuration
- BLE on-site operations: easy data synchronisation, configuration & installation
- Supervision and maintenance of system performance
- Current and archive consumption data

### Plug & play

Enjoy the full functionality of OKO x4A5 a mere minutes after its mechanical assembly.



OKO x4A5 installed on gas meter

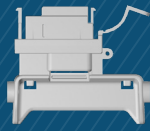
Secure data transmission

Data presentation & interfaces, report generation

**OKO x4A5** installed on gas meter takes pulses from the meter (appropriate adapter on request - see below) and can send the data over NB-IoT network to an acquisition server. Subsequently, the data can be processed further to 3rd party data center.



IC Rx15-Itron RF1



IC Mx15-Metrix GL



IC Ex15-Elster BK,  
IC Lx15 -Landis&Gyr  
model 750,1010



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



IC Kx15-Kale Kalip



IC L013-Landis&Gyr  
model 750,1010

▪ All adapters are available in version with replicated pulse output

## Functional and Technical Features

### Low Power Communication

- NB-IoT
  - Quectel BC66
  - embedded SIM card (MFF2)
  - optional external SMA antenna
- Bluetooth® Low Energy
  - Bluetooth 5.2
  - 2,4GHz, +8dBm
  - range up to 30m

### Environmental Parameters

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

### Power supply

- Non-replaceable long life Li-MnO<sub>2</sub> battery
- Battery lifetime: up to 10 years (depending on communication pattern)

### Dimensions

- H (w/o antenna) x W x D: 90mm x 91mm x 36mm

### Data structures

- Gas consumption logging at configurable intervals (60 minutes by default)
- Current state: temperature, signal quality, battery state
- Daily maximum instantaneous and hourly flow
- Tamper detection: device removal, external magnet
- Device status: active BLE connection, allowed temperature exceeded, device warning, device error (service required)

### Compliance

- ATEX / UK Ex / IECEx: II1G Ex ia IIC T3 Ga
- CE / UKCA

### HMI interface

- Magnetic "button"
- Mobile application for control/readout by Bluetooth Low Energy (BLE)

### Available versions

- OKO X4A5-1001 - version with connector and whip antenna
- OKO X4A5-1101 - version with connector and SMA antenna
- OKO Y4A5-1001 - version with magnetic field sensor and whip antenna
- OKO Y4A5-1101 - version with magnetic field sensor and SMA antenna