



Smart Gas Metering

OKO xM05 Wireless Gas Meter Data Logger



Multiprofile IoT (LTE Cat.M, NB-IoT)



Bluetooth 5.2



Built-in pulse sensor



ATEX & IECEx 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 xM05!**

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 various IoT networks to acquisition server at regular intervals. Designed and manufactured in accordance with ATEX directive, **OKO xM05** 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 xM05 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.



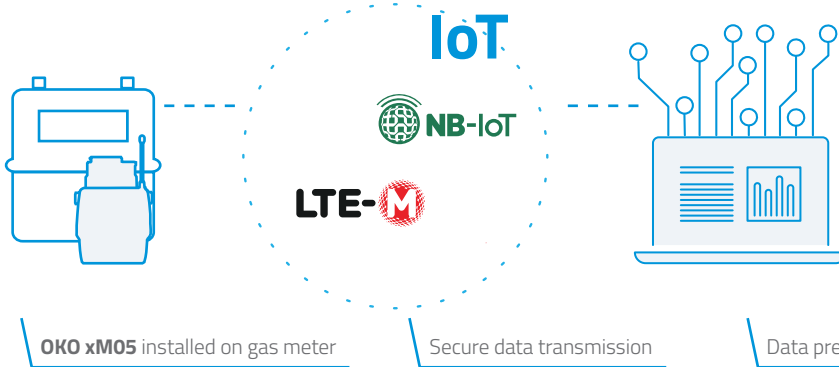
SITA application - virtual LCD display

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 xM05 a mere minutes after its mechanical assembly.



OKO xM05 installed on gas meter takes pulses from the meter (appropriate adapter on request - see below) and can send the data over a wide variety of mobile networks to 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

- All adapters are available in version with replicated pulse output

Functional and Technical Features

Low Power Communication

- LTE Cat.M, NB-IoT
 - Quectel BG77
 - non-replaceable eSIM
 - 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-MnO₂ battery
- Battery lifetime: up to 15 years (depending on communication pattern)

Dimensions

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

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 certificate: II1G Ex ia IIC T3 Ga
- IECEX
 - CE

HMI interface

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

Available versions

- OKO XM05-2001 - version with whip antenna
- OKO XM05-2101 - version with SMA antenna