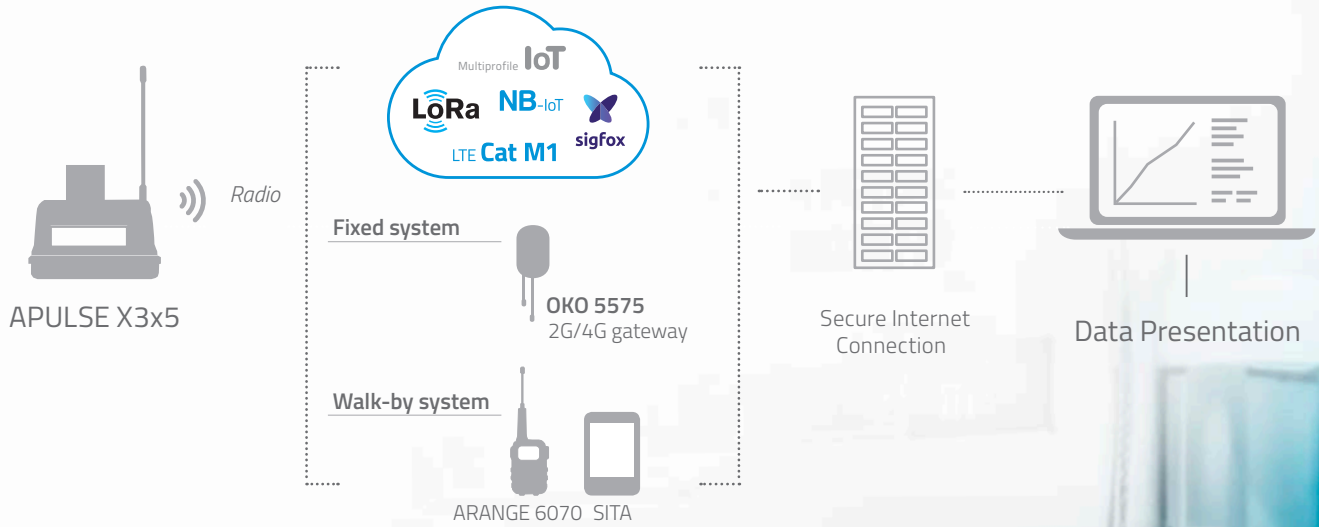




Smart Gas Metering

APULSE X3x5 Wireless IoT Gas Meter Data Logger



IoT Connectivity / SRD wireless communication



Cost effective solution



Hourly consumption registered for 10 years



Built-in pulse sensor



Long life battery (10 years)



Robust, suitable for outdoor environment



Easy to set up & retrofittable on existing meters



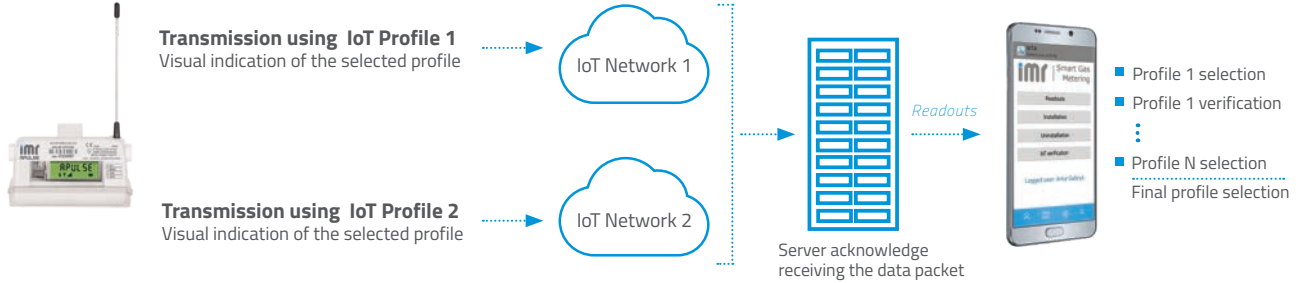
Zone 2 - ATEX approved



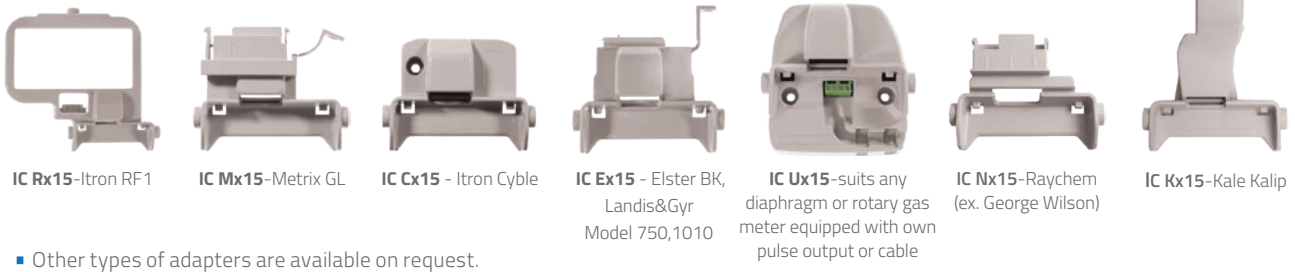
APULSE X3x5 is a universal wireless data logger with built-in pulse detector that can be installed on new or existing diaphragm meters. The device registers consumption profile as well as magnet and tamper detection. Once per day APULSE X3x5 sends the data via **Sigfox** or **Lora** low power network. The data logger is designed for walk-by gas metering as well as fixed metering what makes it the most cost effective solution for individual housing, dense urban and block of flats.

IMR Smart Gas Metering system, 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.

Check communication and select appropriate IoT profile that ensures stable APULSE reception. Available IoT Networks: **LoRa, Sigfox.**



Thanks to the specially dedicated adapters APULSE X3x5 can be used with different types of gas meters:



Other types of adapters are available on request.

Low Power Radio Communication

- Sigfox transmission: radio frame - every 24 h
- Lora transmission: radio frame - every 24 h
- IMR IoT: 868MHz
- IMR IoT transmission: radio frame - twice a day scheduled or on request
- IMR IoT bidirectional communication after transmission: data archive, diagnostics, configuration
- Event transmission: Sigfox or Lora and IMR IoT
- Event types: device removal, external magnet
- Summary reports with consumption profile
- Opto port and IMR IoT radio available for on-site set up, configuration and diagnostic

IT Management system

- IMR HES - a high class application for readouts, configuration, and communication management. A flexible and customizable communication platform supporting devices using various communication protocols.
- Browse current and historical data with SIMAX web application, get e-mail summary reports
- Manage installation process, supervise and maintain high system performance with SITA mobile application

Compliance

- ATEX Directive 2014/34/EU (Zone 2, gas group B)
- Radio Equipment Directive (RED) 2014/53/EU - CE marked equipment
- IECEx Certified Equipment Scheme

Environmental Parameters

- Robust design, secured with seals
- Suitable for outdoor environment
- Operational temperature -25°C to +55°C
- IP 56
- UV resistant

Battery

- Battery pack: Lithium 3,6V
- User replaceable
- 10 years lifetime

HMI Interface

- LCD electronic index for verification with mechanical index
- Easy installation process