AIUNEO aiut brand

APULSE x3F6

Smart Data Logger

LoRaWAN sigfox imr

- SRD wireless communication, IoT
- Bluetooth 5.2
- Easy to set up & retrofittable on existing meters
- Hourly consumption registered for 10 years
- Accelerometer technology for proper installation
- Long life battery (over 10 years)
- Configuration & firmware upgrade over BLE
- Magnetic sensors
- Data encryption
- ATEX certification (zone 0, gas group B)

APULSE x3F6 is a universal wireless data logger 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 x3F6 sends the data via Sigfox or LoRa low-power network. Thanks to the extended support of IoT networks, APULSE x3F6 is fully versatile and of global coverage. Its Bluetooth 5.2 module allows data collection and on-site configuration with the use of a dedicated mobile application. Its functionality enables the registration of an unauthorized dismantling of the device or its improper installation on the gas meter. Such notifications can be interpreted as alarms and processed respectively by a maintenance operator. This high-capacity, data-storage device is a perfect choice for both standard IoT readout and walk-by systems which makes it the most cost-effective solution for individual housing, dense urban, and block of flats. Its sophisticated engineering design guarantees over 10 years of battery life with daily data transmission.

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PLUG & PLAY

APULSE x3F6 takes pulses from the meter and sends the data over the LoRa or Sigfox network to the acquisition server. Subsequently, the data can be processed further in 3rd party data center. Our solution can operate both in fixed or walk-by mode, which ensures reliable and on-time readouts even in cases of disturbed IoT communication. The walk-by meter reading is performed via Bluetooth Low Energy (BLE) or with ARANGE 7076 using a classic Bluetooth connection to a smartphone or a tablet.

APULSE x3F6 installed in a location

Mobile application for flexible configuration and data readout by Bluetooth 5.2

Acquisition server & data presentation

Thanks to the specially dedicated adapters, APULSE x3F6 can be used with different types of gas meters:

Itron RF1 | Metrix GL | Elster BK | Diaphragm/rotary gas meter with pulse output or cable | Kale Kalip | Landis&Gyr model 750,1010

Functional and Technical Specifications

Low Power Radio Communication

- Bluetooth Low Energy 2,4GHz +8dBm
- Sigfox ready for RC1 / RC2 / RC4 / RC6 zones
- LoRa frequency bands: EU868 / US915 / AU915 / AS923
- Sigfox transmission: radio frame - every 24 h
- LoRa transmission: radio frame - every 24 h
- Event transmission: Sigfox or Lora
- Event types: device removal, external magnet, reverse/max/min/ no flow, low battery
- Supporting Wireless M-Bus mode T1
- Summary reports with the consumption profile

Dimensions

- Height: 75 mm (108 mm with antenna), width: 82 mm, depth: 29 mm

Environmental Parameters

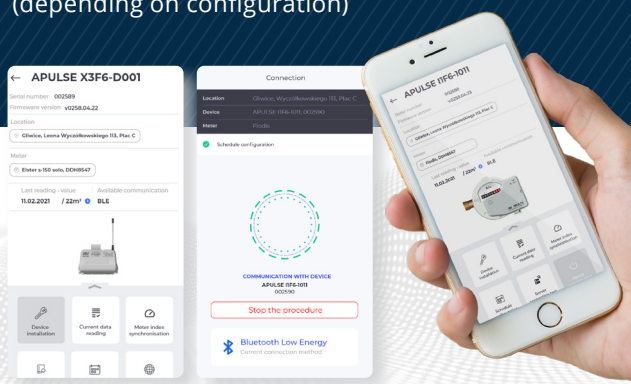
- Certified for hazardous locations (zone 0, gas group B): ATEX, IECEx
- Radio Equipment Directive (RED) 2014/53/EU - CE marked equipment
- Robust design, secured with seals
- Suitable for outdoor environments, IP 65
- Operational temperature -25°C to +55°C

Power Supply

- User-replaceable battery
- Battery lifetime: over 10 years (depending on configuration)

Virtual LCD display

- 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



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