



Smart Connections

NEUTRON3-B+

Neutron3-B+ is a battery operated data logger for pulsed consumption meters, e.g. water and gas. It can be placed anywhere, and runs unattended for 6 years or more, without a battery replacement. It's amazingly easy to install and use.

Neutron3-B+ reads up to 3 pulsed consumption meters. Additional measurements can be introduced via an onboard I2C bus or an add-on Modbus fieldbus card.

Data is collected hourly, half-hourly or quarterly, and delivered to Neutron3-B+ uses the mobile data network and requires a SIM card. Meter supporting, data is accurate for invoicing.

the server once a day.

A configurable leak detection feature is built in the device. From drop to burst leaks, Neutron3-B+ alarms immediately to avoid waste and material damage.

ionSign provides a cloud service for data and device management. Neutron3-B+ can also directly communicate to any EMS, FMS, or third party back-end system. Bespoke integrations are easy to build.



Technical specifications

- Integrated 3G GSM module
- 3 inputs for pulses
- I2C bus (e.g. for Temp/RH sensor)
- Hourly, half-hourly or quarterly data
- Local buffer for transfer network failures (18 months for half-hourly data)
- Internal antenna included
- Configurable leak detection
- Battery voltage monitoring
- Operating temperature -25°C ... +55°C
- Operating RH 5%...95% non-condensing
- IP43 with standard external connectors
- Optionally IP68 with internal connectors
- (WxHxD 145 x 90 x 55mm)

Battery Options

- Standard delivery includes two C cell alkaline batteries for 6 years of operation
- Optionally one C size 3.6V 6.5Ah LiSoCl2 battery for 10 years of operation
- Optionally one D size 3.6V 18Ah LiSoCl2 battery for 20+ years of operation
- Optionally two D cell alkaline batteries for 20 years of operation (no room left for Modbus card)
- **Battery life is always subject to individual conditions, mainly mobile network strength**

Typical applications

- Gas and water metering in off-grid locations, or anywhere for installation simplicity

Mobile user interface

- Standard HTTP for easy server interface
- Easy to configure with a single SMS message

Extra features

- Optional add-on card for Modbus RTU RS485