



Smart Connections

NEUTRON4-B

Neutron4-B is a grid independent AMR unit for pulsed water and gas meters. Battery operated, it can be placed anywhere, and runs unattended even for 10 years. It's amazingly easy to install and use.

Neutron4-B reads up to 4 meters hourly, half-hourly or quarterly, and delivers the collected data to the server once a day. Neutron4-B uses the mobile data network and requires a SIM card.

With surface mounting, it's easy to place virtually anywhere, especially nice for gas and water meters. Meter supporting, the data is accurate for invoicing.

ionSign provides a cloud service for reporting and device management. Alternatively, Neutron4-B can also directly transmit to any EMS, BMS, or external system. Bespoke integrations are easy to build.



Technical specifications

- Integrated 3G GSM module
- 4 inputs for pulses
- Hourly, half-hourly or quarterly data
- Local buffer for transfer network failures (38 months for 60min data, halved for shorter)
- GSM antenna included (+ battery in Finland)
- Expected battery life 10 years with factory installed EVE ER26500M 3.6V 6Ah
- Compatible batteries e.g. SAFT LSH14 and ULTRALIFE ER26500M
- Battery voltage monitoring
- Operating temperature -25°C ... +55°C
- Operating RH 5%...95% non-condensing
- Flanged PC plastic enclosure IP65
- (WxHxD 145 x 90 x 55mm)
- IP44 with bushings for wiring

Typical applications

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

Mobile user interface

- Standard HTTP protocol allows easy server interface and application development
- Easy to configure with a single SMS message

Extra features

- Optional cloud service for reporting
- Available with enclosure for higher IP class
- I2C bus for e.g. Temp/RH and Temp sensors or analog input extensions