



Smart Connections

Neutron Smart Gateway

Neutron Smart Gateway is an AMR solution for reading Modbus utility meters and compatible ionSign pulse collectors, even in large numbers. It's amazingly easy to install and use.

Neutron Smart Gateway converts up to 480 simple pulsed meters into smart meters. Modbus meters are connected directly to the Smart Gateway, pulsed meters are connected via a compatible pulse collector, e.g. ionSign Neutron15. Large amounts of energy and utility consumption data are securely conveyed to a data server using TCP/IP. After setup, data is collected and transferred autonomously, without any server or user induced queries.

By default, the Neutron Smart Gateway reports hourly consumption data once a day. The user may also define periodical logging starting from a one minute interval. Time series continuity in case of transfer network failures is secured by a sufficient local buffer. The Smart Gateway also independently recovers from power outages.

Neutron Smart Gateway provides an effortless way of securing a constant data flow from a large amount of consumption meters. Meter supporting, the data is accurate for invoicing.



Technical specifications

- 2 RS485 interfaces: Modbus master and slave
- Capacity: 480 pulsed meters or 32 Modbus meters (more with some Modbus meters)
- 134 days buffer for 24 h data of 480 measurements, longer if less measurements in use
- LAN connection
- Operating voltage 12...24 VDC
- Current consumption 110 mA
- Operating temperature -25°C ... +50°C
- Storage temperature -30°C ... +85°C
- Operating humidity 5%...95%, non-condensing
- 3 module wide DIN rail enclosure
- (WxHxD 53x90x52mm)
- IP20

User interface

- Easy to control with integrated web server
- After setup, data streams without queries
- Standard HTTP reporting protocol allows easy server application development

Extra features

- Directly compatible with Neutron12-CT, Neutron15 and selected third party energy meters
- Compatible with any Modbus energy & utility meter
- Available with installation enclosure for higher IP class