



Smart Connections

Neutron Smart Gateway

Neutron Smart Gateway is a solution for remotely monitoring a large number of Modbus utility consumption meters and compatible ionSign data acquisition products. It is autonomous, fault tolerant and easily installed.

Neutron Smart Gateway converts up to 480 energy and utility meters into smart meters. It collects data directly from Modbus fieldbus meters or pulse meters connected to a fitting ionSign data acquisition unit. Large amounts of energy and utility consumption data are securely conveyed to a data server using LAN/Ethernet. After initial setup, the data is collected and transferred autonomously, without the need of a server or user induced query.

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 carefully buffering the collected data. The unit 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
- Up to 480 measurements capacity
- 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 Carlo Gavazzi energy meters
- Compatible with any Modbus energy & utility meter or data acquisition device
- Available with installation enclosure for higher IP class