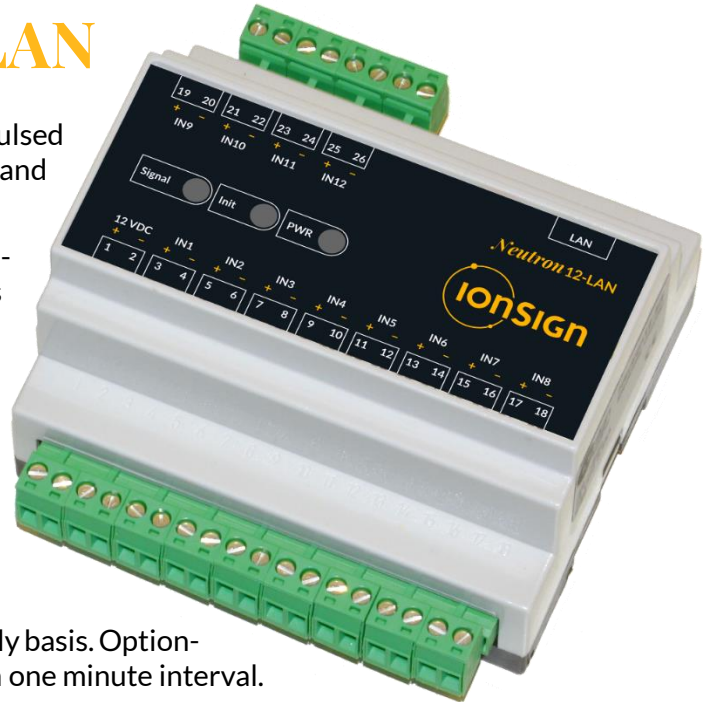# ionSign NEUTRON12-LAN

Neutron12-LAN is an independent AMR unit for pulsed consumption meters. It's amazingly easy to install and use.

Neutron12-LAN converts 12 conventional, pulsed energy and utility meters into smart meters. It collects any kind of utility consumption data– electricity, water, gas, heat etc. – and delivers it to a remote server over TCP/IP. Meter supporting, the data is accurate for invoicing.

ionSign provides a cloud service for reporting and device management. However, Neutron devices can also directly transmit to any EMS, BMS, etc. Bespoke server integrations are easy to design.

By default, data is logged hourly and reported on a daily basis. Optionally readings may be sent periodically, starting from a one minute interval.

Technical specifications

- 12 standard S0 pulse inputs for open collector and relay outputs of measuring devices
- 30 days local buffer (hourly data)
- LAN connection
- IP20
- Operating voltage 11…13 VDC
- Current consumption 100mA (peak 200 mA)
- Operating temperature -25°C … +55°C
- Operating humidity 5%...95%, non-condensing
- 6 module wide DIN rail enclosure
- (WxHxD 105x90x52mm)

Typical applications

- Submetering of premises like office blocks, shopping malls, schools, hospitals, industrial manufacturing sites, residential buildings and more, for energy efficiency improvements

User interface

- Standard HTTP protocol allows easy server interface and application development
- Easy to setup and control through integrated web server

Extra features

- Optional cloud service for reporting
- Easy integration to other reporting systems
- Available with enclosure for higher IP class
- Available also with GSM mobile connection