



Smart Connections

ionSign NEUTRON12-CT

Neutron12-CT enables electrical energy metering when either the location or cost rules out ordinary energy meters. It's amazingly easy to install and use.

Neutron12-CT uses current transformers to measure electrical energy without direct electrical coupling. Separate energy meters are obsolete. The 12 inputs may be used for 12 one-phase measurements, 4 three-phase measurements or any combination. Energy is calculated based on current measurement. Neutron12-CT is not MID certified for fiscal metrology.

Neutron12-CT delivers data to server in the mobile data network. It also has a Modbus RS485 serial interface for fetching data to external systems, or to ionSign's Modbus master devices.

Neutron12-CT is the most affordable electrical energy metering solution. Using Neutron12-CT, metering also relatively small consumptions makes sense.



Technical specifications

- Integrated 3G GSM module
- 12 current transformer inputs
- CT clamp for 0-63 A current range
- RS485 connection with Modbus slave
- 30 days data buffering capacity
- SMA connector for external antenna
- 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)
- IP20

Typical applications

- Remote monitoring of electrical energy where an electricity meter is not practical or feasible

Mobile user interface

- Easy to control with mobile SMS interface
- Easy to setup, configuration with a single SMS
- Standard HTTP protocol in reporting allows easy server application development

Extra features

- CT clamps available for higher currents
- Cloud service for device & data management
- Available with installation enclosure for higher IP class