



*Smart Connections*

## ionSign – NEUTRON

*Real-time remote consumption meter reading*

The **NEUTRON** concept is designed for remote monitoring of energy and utility consumption. It brings smart meter features to conventional utility consumption meters, facilitating energy management services and energy efficiency improvements. It is versatile, dependable and supported by a server software. Installation of **NEUTRON** is simple and quick.

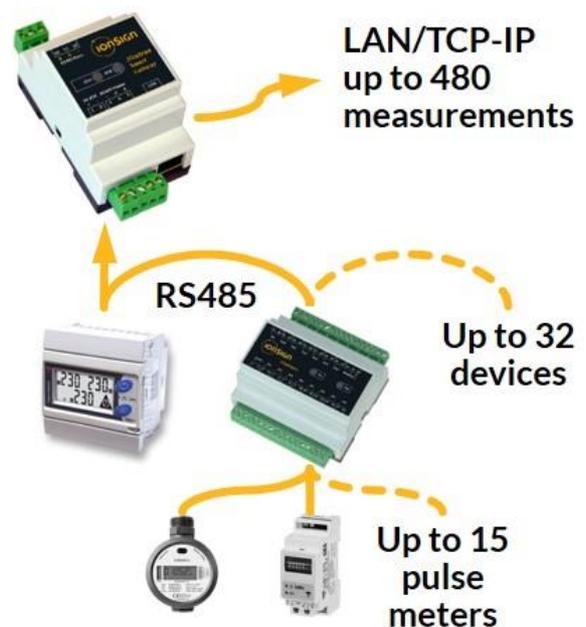
**Neutron** is a pulse concentrator, reading consumption data from 4 to 480 connected conventional, inexpensive utility meters, depending on the product. Alternatively, electricity consumption may be read directly on the cable, without a separate electricity meter. **Neutron** has an integrated data transfer using mobile data or LAN/TCP-IP networks.

### **Fast Lane to Smart Metering**

**Neutron** is designed to turn conventional energy and utility meters into smart meters. Any pulse-generating meter – electricity, gas, district heating, water etc. – may be monitored. **Neutron** automatically sends hourly data to the server every 24 hours, optionally also at user defined intervals. With **Neutron**, a detailed smart submetering is built easily and efficiently.

### **Why is NEUTRON different?**

- **Very low cost per measured location**
  - ✓ Simple inexpensive metering will do
  - ✓ One unit serves up to 480 meters
- **Very easy to install and expand**
  - ✓ May be configured in advance
  - ✓ Low installation qualifications
- **Data is never lost**
  - ✓ The device collates data independently of server
  - ✓ Internal buffer for transfer network failures
- **Hand-over to client negotiable**
  - ✓ Anything from simple data aggregation to advanced reporting





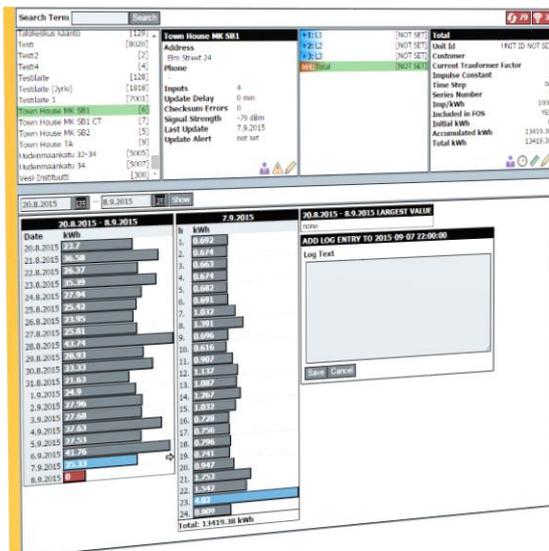
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### Case Enegia Group Oy

Enegia Group is a leading energy management expert in the Baltic Sea region. Since the utility provider typically only meters top level consumption, Enegia uses extensive sublevel metering. ionSign's **Neutron** data collectors are the backbone of collecting Enegia's utility consumption data. The data flows directly to Enegia's client system. Enegia provides its clients with massive amounts of real-time individual consumption data easily and cost efficiently, to support energy management and savings.

### Benefits to the user

A **Neutron** user has all consumption data of the monitored locations real-time, in a single web interface. Only knowing the consumption of utilities at suitably detailed sublevels, allows making informed decisions on developing energy procurement, energy efficiency investments and energy using behaviors. Whether a real estate owner or manager, energy manager or consultant, **Neutron** provides the knowledge.



### NEUTRON server – Flexible integration

Neutron server is the receiving storage and presentation of the consumption data. The data is as accurate as the attached meter, thus appropriate even for invoicing purposes. Data transfer is built on the standard HTTP protocol, enabling easy installation and integration to e.g. existing energy or facility management systems. Device configurations are made simply by SMS messages or a browser interface.