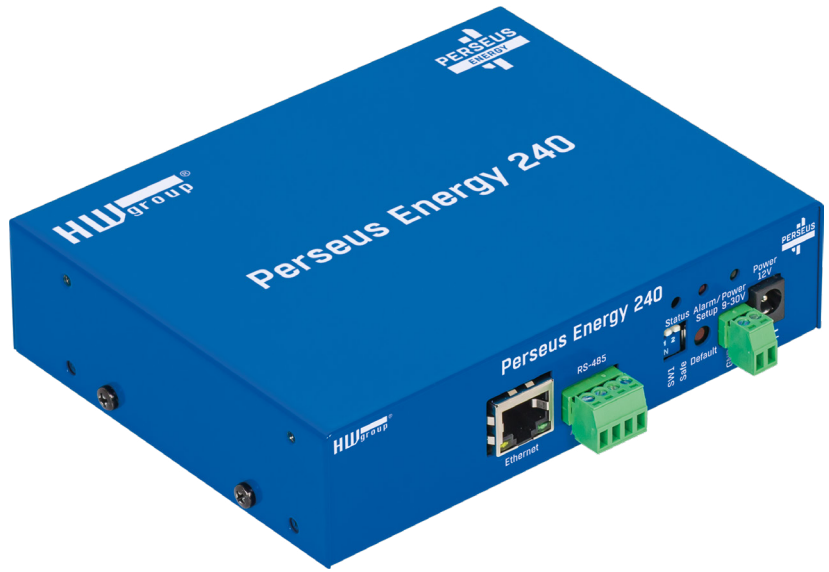# Perseus Energy 240

The simplest and most affordable Perseus LAN monitoring device, designed to connect HW group's and third party RS-485 Modbus/RTU sensors to the SensDesk Technology-based Portal.



**Meters API** – ability to work with other HWg devices

**Support for** third party sensors

**Local calendar** based scheduler
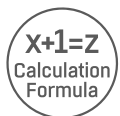
**Variables can have** multiple conditions and actions

**802.1X central** security management

**Local custom** scripts in Lua

**Templates repository** for third party sensors
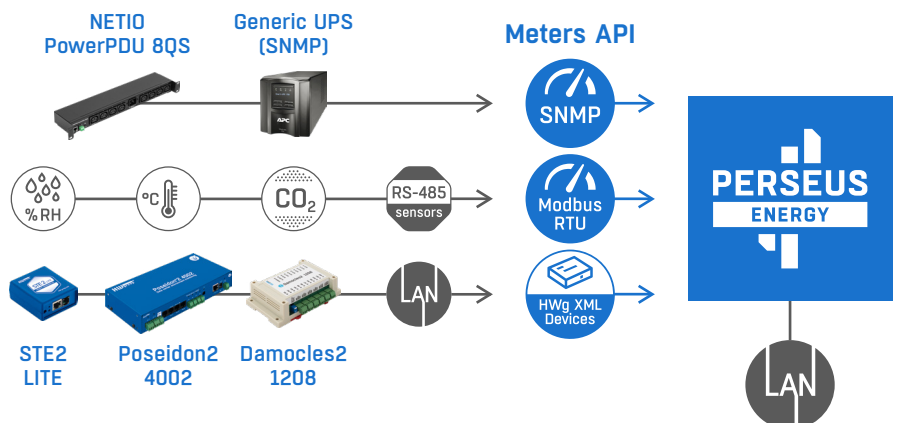
**Converts variable from** one unit into another

Perseus Energy 240 supports up to 100 meters with 1000 variables, connected via RS-485 (Modbus/RTU). It can read values from other network devices via generic SNMP, Modbus/TCP, MQTT and XML (for HWg devices). It can analyze metered data from RTU/LAN devices with using local alarms, conditions and actions, and LUA scripts executed in the Perseus device.
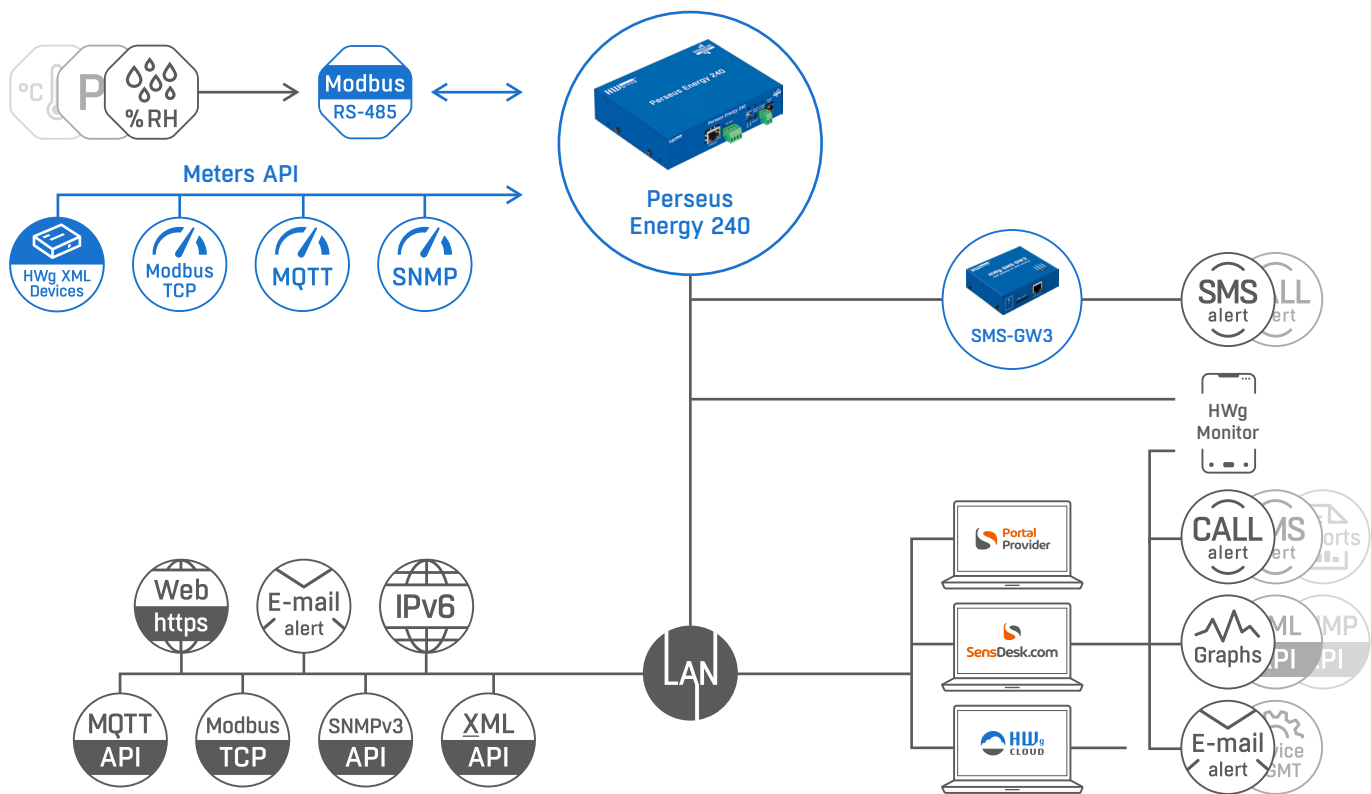
Perseus Energy 240 is a gateway, it has only RS-485 interface, no RJ11 ports and no DI (Digital Inputs).

The Perseus Energy 240 is ideal device for connecting third party RS-485 (Modbus/RTU) sensors to an existing remote monitoring site. Perseus 240 can analyze and send the data to any of the SensDesk Technology-based Portals. Third party sensors can be connected via RS-485 (Modbus/RTU) or as LAN devices via the Meters API (SNMP, Modbus/TCP, MQTT).

Using the RS-485 Modbus/RTU as data input (Meters API) and Modbus/TCP as output (Open API), the Perseus Energy 240 can be used as a gateway from physical Modbus/RTU (RS485) to Modbus/TCP (LAN). Measured data can be analyzed, connected to the Portal and used in any third party SCADA or SNMP based NMS system.

Perseus Energy 240 can be used as a Modbus RTU to TCP gateway or a Modbus/RTU to MQTT or SNMP converter.

## Typical applications

- Modbus gateway (Modbus RTU to TCP)
- Remote machine monitoring
- Remote environmental monitoring of warehouse / storage spaces
- Remote monitoring of technical room (sites)
- Remote site data concentrator of all local sensors/meters
- Remote environmental monitoring within the cabinet or telco site
- Pharmaceutical/warehouse environment monitoring
- Remote base transceiver station monitoring
- Greenhouse monitoring

## Alerting options

The alert situation can be sent from the device as stand-alone alerts (SMS, Call, Email) or analyzed & alerted from the Portal (SensDesk Technology) with Graphs, Virtual sensors, Device Invalid alerts, PDF reports or Portal account Open API (SNMP/XML).

Perseus device can also individually share all measured values via the Open API (SNMP, MQTT, Modbus/TCP, XML, ...)

### Features

| Features | |
|---|---|
| Alerts | SNMP trap, email, (SMS / Calls with external SMS GW) |
| Open API | SNMP, XML, Modbus/TCP, MQTT |
| Professional product | IPv6, SNMP Traps, SNMPv3 |
| Security | Radius - IEEE 802.1X, Admin and user accounts, HTTPs (customer certificate) |

### Interfaces

| Interfaces | |
|---|---|
| Meters API | HWg XML, Modbus/TCP, MQTT, SNMP |
| RS-485 (Modbus/RTU) | 1× 4-pin terminal block (with 12V) |

### Technical specifications

| Technical specifications | |
|---|---|
| Ethernet | RJ45 (100BASE-T) |
| Power | 9-30V (12V, 1.5A) |
| Operating temperature | -30 °C to 85 °C (-22 °F to 185 °F) |
| Mechanical | Metal case, 38×121×145 mm |
| Warranty | 24 months |

### Software / Services

| Software / Services | |
|---|---|
| SensDesk.com | Online remote monitoring service. Graphs, alerts, device management. |
| Portal on premise | Standalone individual SensDesk installation |
| Portal Providers | Several SensDesk Technology portals |
| HWg-cloud.com | Free of charge portal service |
| HWg Monitor | Smart phone application (iOS, Android) |
| Other software | Third party software, HWg-SDK |