Sales Webinar Q2 2025

www.hw-group.com

New Perseus Energy 285

- Premium M-BUS to Ethernet gateway with LTE
- Flagship unit for 100 M-Bus meters
- Also supports other types of energy meters, like Modbus-RTU
- 2 relays outputs for local actions, WLD zone
- Can power the whole M-Bus from its internal power supply

New Perseus Energy 242

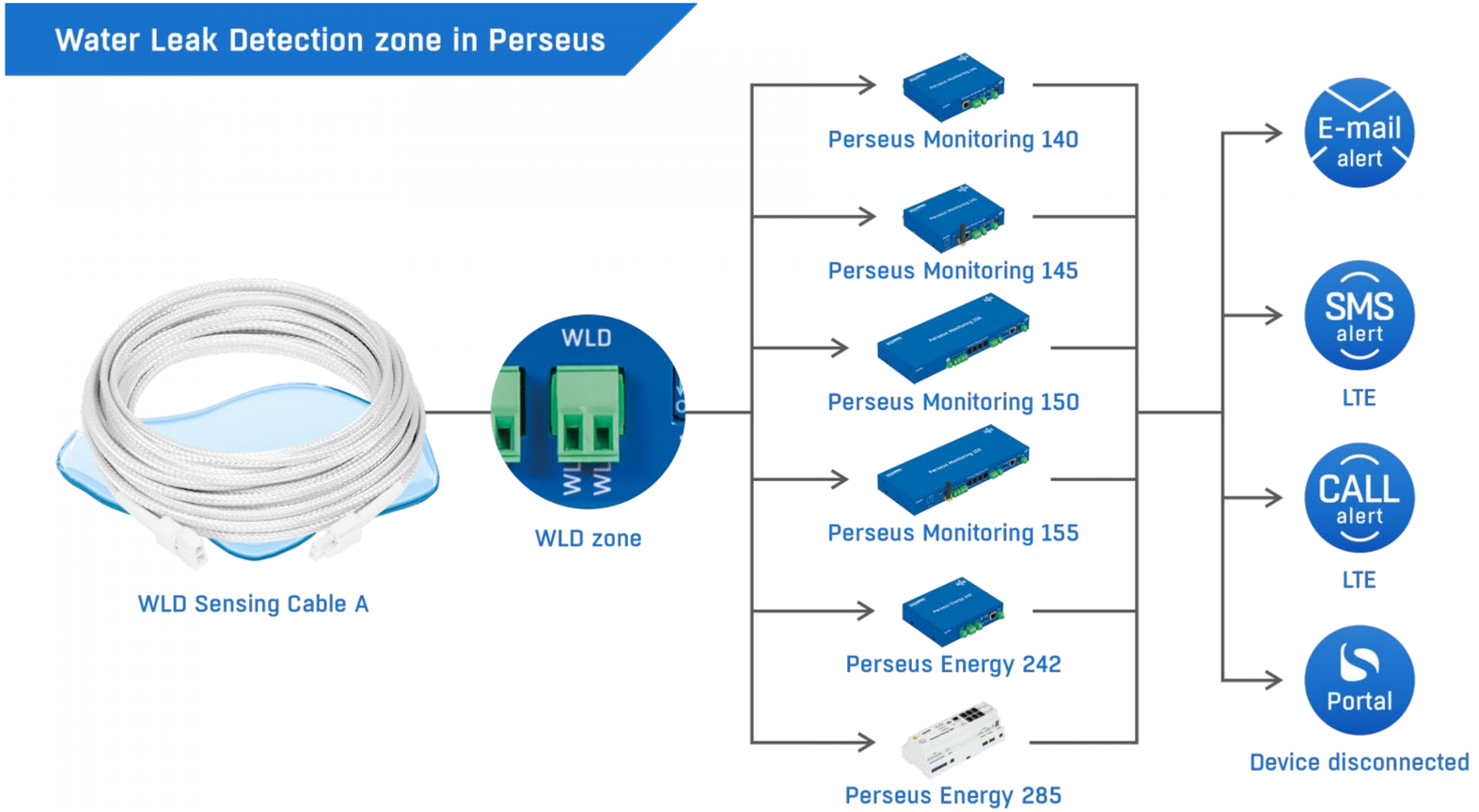
- Cost effective M-BUS to Ethernet gateway
- Separate M-Bus power supply to reduce pricing
- 3rd party energy meters supported as well as sensors and inputs
- Relay output included, WLD zone

New Perseus Energy 240

- A cost effective SNMP and Modbus-RTU gateway
- Connect third party energy meters and sensors to HW group ecosystem and SensDesk
- Connect and control SNMP and Modbus devices

WLD zone in Perseus devices

- Connect the water leak detection cable directly
- Makes a very easy up-sale for IT or industrial installations
- WLD system has a lot of potential and we will focus on it



New 1-wire sensors

- We need to upgrade all 1-wire sensors because of Perseus "meters API" concept
- Old sensors will report as multiple meters, new ones will be one meter per hardware
- New sensors are fully compatible with previous product families (Poseidon, STE2)
- There will be a document to help you choose the right sensor.

RJ11 sensor (1WR & 1WU)

600888 1WR_Temp_Rack19-2p

- New name: 1WR_Temp_Rack19-2p 600888
- Old name: Temp-1Wire Rack19 600329

- Sensing: Temperature
- Range: -10–80 °C
- 1WR: 2x RJ11 port (daisy-chain)
- Included: RJ11 cable 3m

600889 1WR_HTemp_Rack19-2p >> **600504 HTemp-1Wire Rack19**

- 1WR = RJ11 1Wire sensor (no power limitation per RJ11 port)
- 1WU = RJ11 1Wire UNI sensor (1 sensor per RJ11 port recommended)
- 2p = 2x RJ11 port (easy to daisychain)

SensDesk update

At HW group

SensDesk update and improvement

New version of SensDesk technology.

- We worked on it for a really long time. That's why we haven't released any new features.
- It was an update to the **backend** and **internal system**.
- At the moment these are changes that the user **will not recognize**. But it brings us possibilities that they will recognize in the future.

The main reasons for the new version are:

- We upgraded to the latest version of Drupal.
- Greater security.
- Faster system.

SensDesk Technology

SensDesk update and improvement

How do we proceed? The upgrade will be implemented gradually.

- We have, HWg-cloud, SensDesk.com, distributor versions of SensDesk and customer installations. We have more than 100 installations that we will handle.

Cloud services: **HWg-Cloud** and **SensDesk**.

- The latest version has been successfully deployed on **hwg-cloud.com**.
- At www.SensDesk.com we will deploy the new version.

- **Distributor versions** will be managed separately. We will provide updates within the next few days. A newsletter will be sent soon to keep you informed of our plan.
- Then we will continue with our customers versions that are running **on their servers on their networks.**

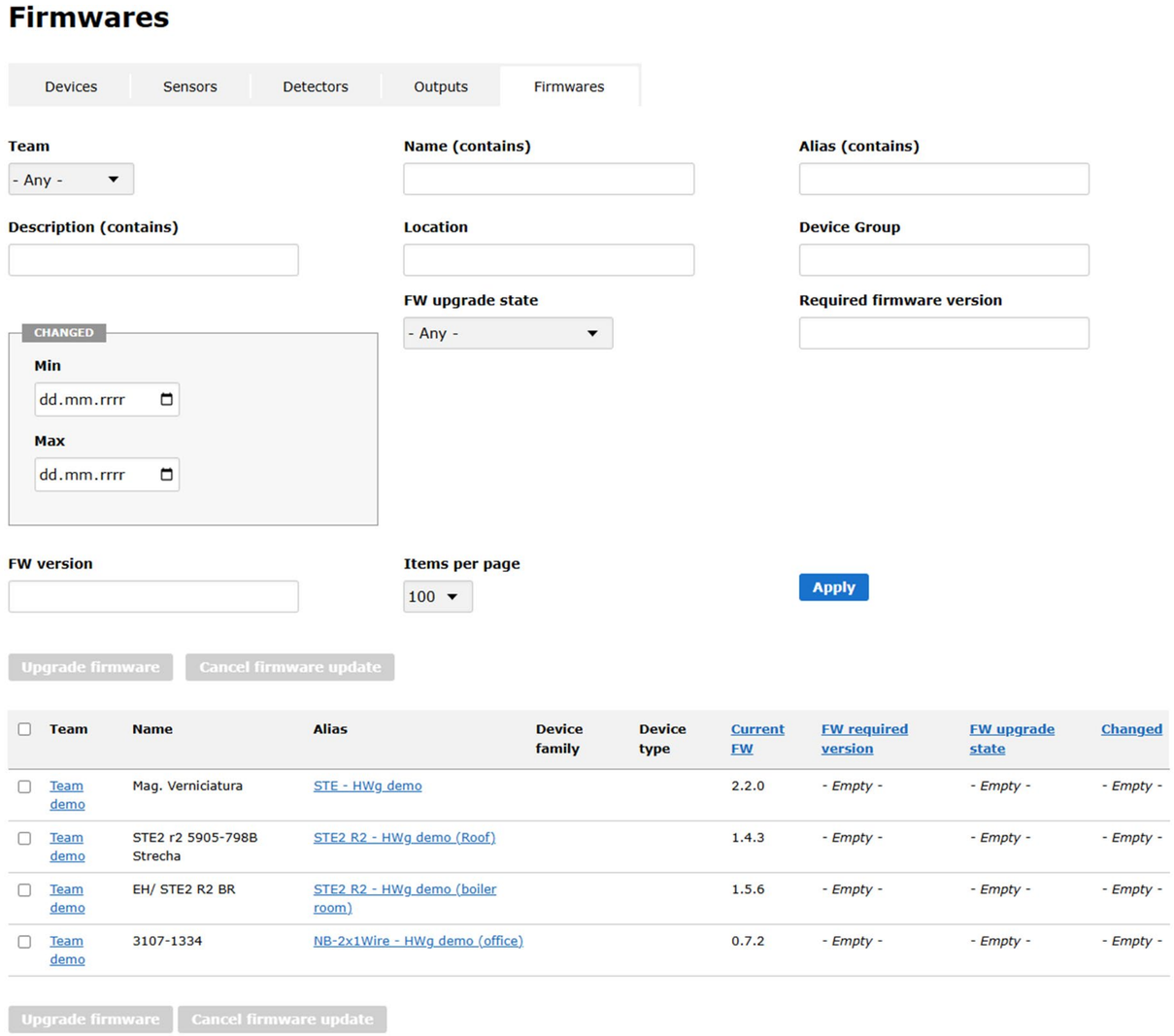
SensDesk update and improvement

Two important functions.

The first one is, **Firmware upload functions**

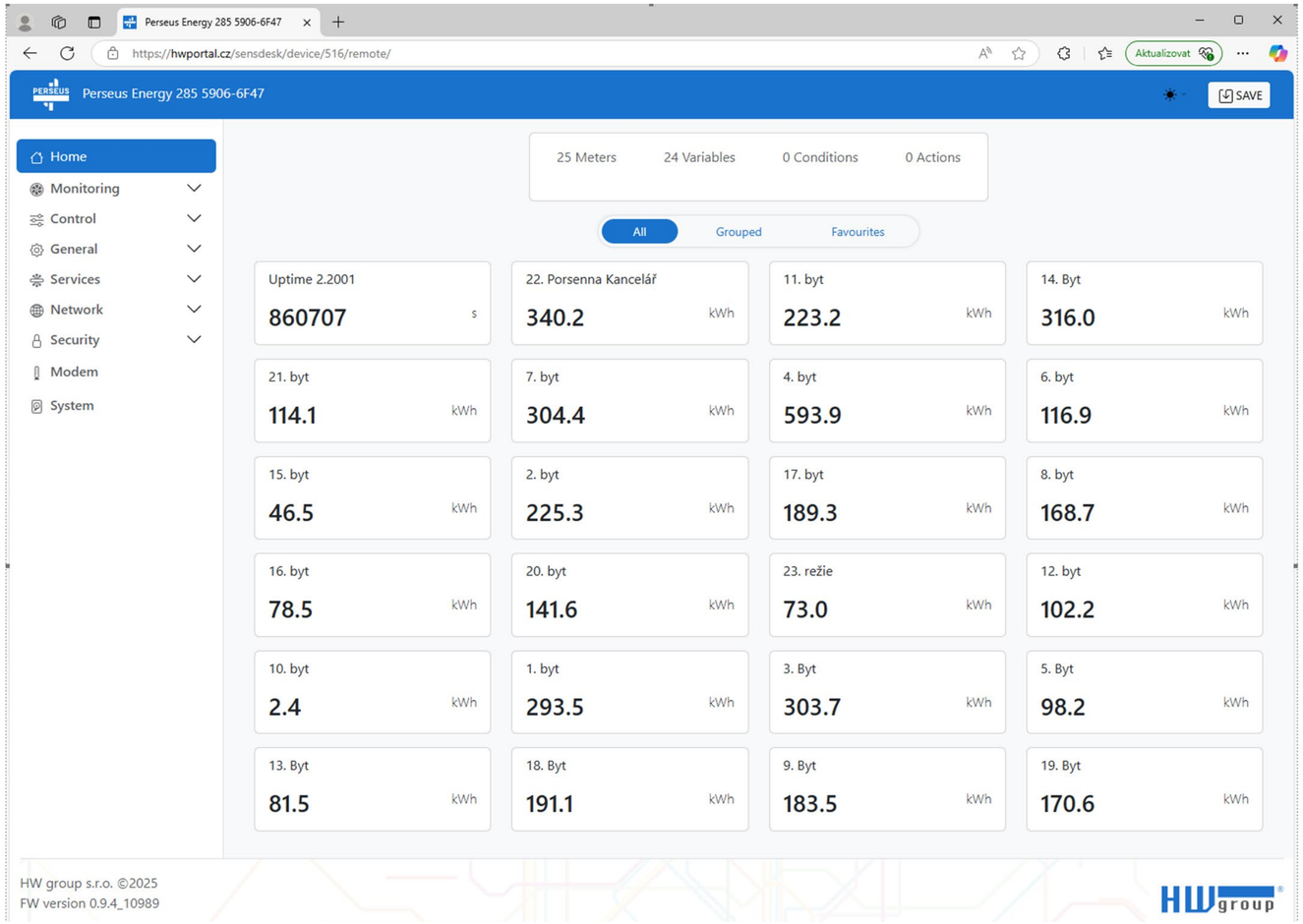
- Bulk upload of FW.
- It is available for these devices:

STE2 devices, Perseus devices and Ares.



SensDesk update and improvement

- The option for remote configuration via the portal will allow tunneling of the entire interface **(Perseus)**.



- **Let's find out what that means in practice.**

SensDesk update and improvement

What that means in the practise.

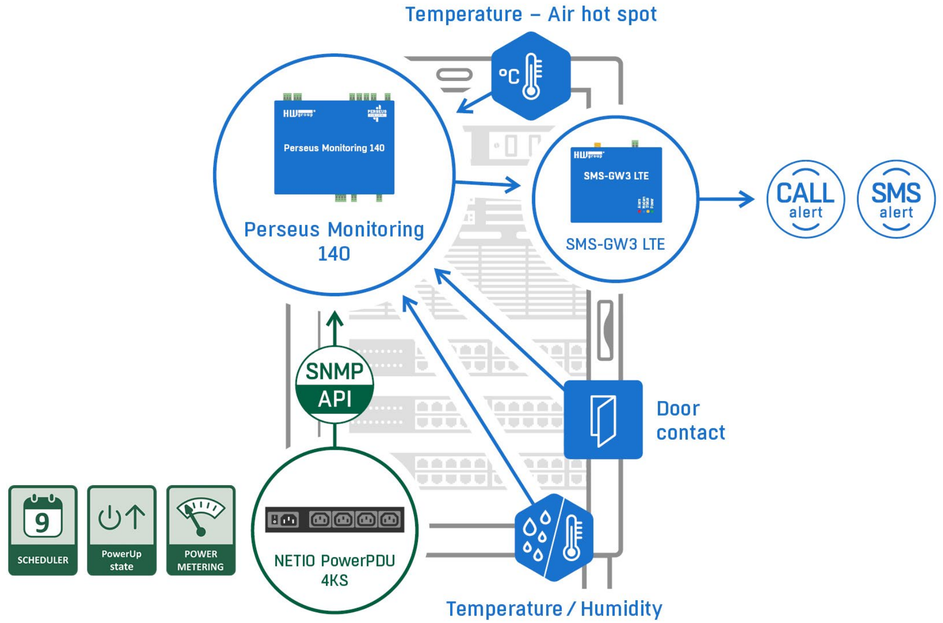
- You can use this configuration for all **Perseus** devices LTE and Ethernet connections.
- Units that support LTE, at the moment **Perseus Monitoring 145**, **Perseus Monitoring 155** and **Perseus Energy 285**, can be placed anywhere on the planet and you can use their web interface from home, offices etc, thanks to SensDesk and this function.
- You've probably used Ares conf in SensDesk. However, this is an improvement of several levels.
- Not only can you see the interface, you can configure it and everywhere in the world, even in hard-to-reach places with the LTE.
- **Please note that this is only possible if you have connected devices to SensDesk!**
- **These may be distributor versions of the portal.**

Marketing

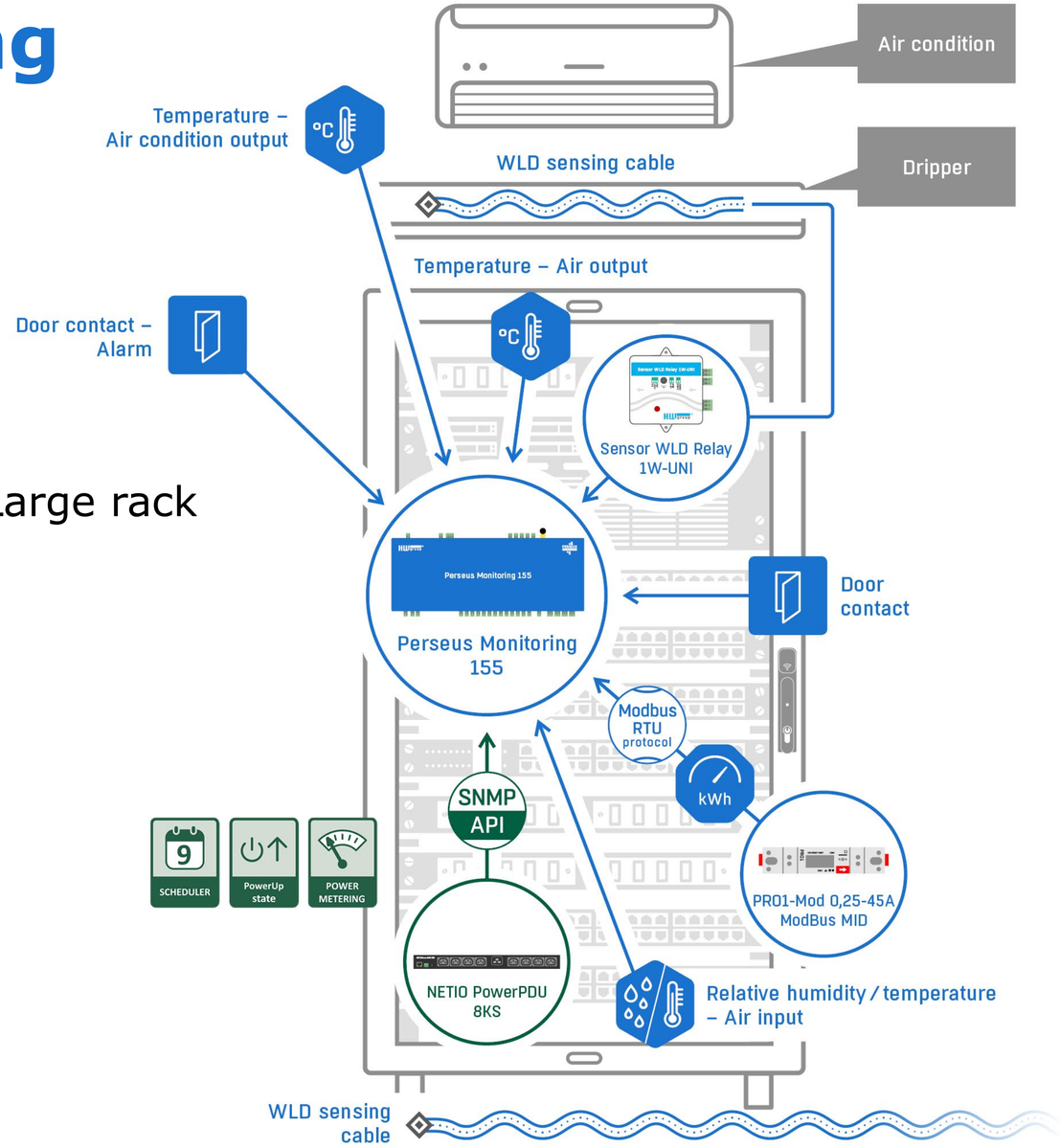
At HW group

Perseus rack monitoring solution

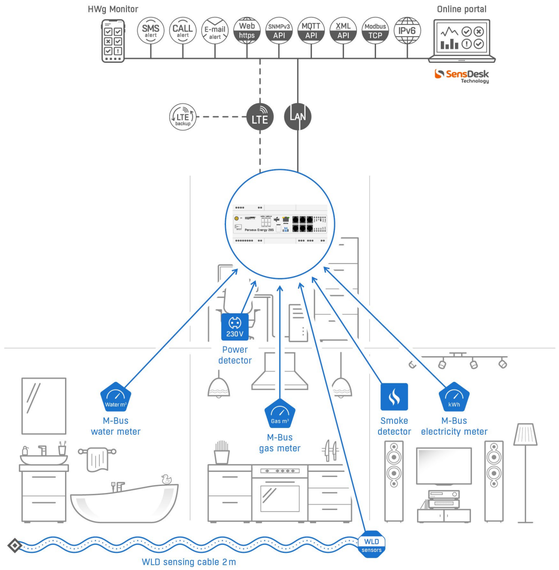
Small rack

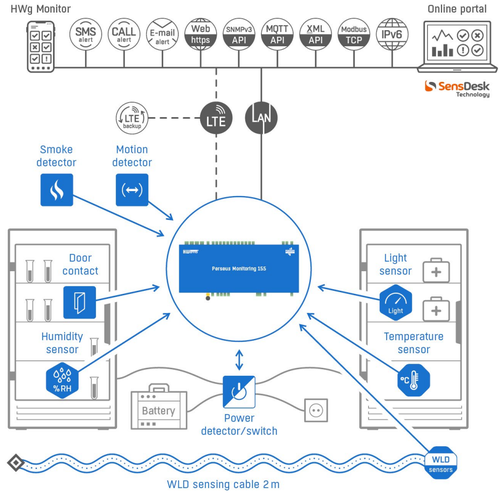


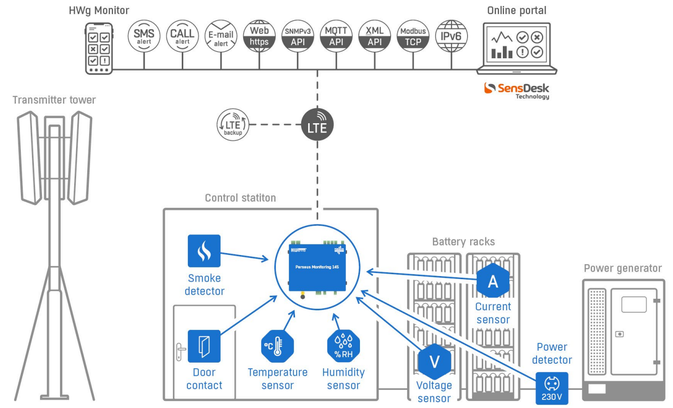
Large rack

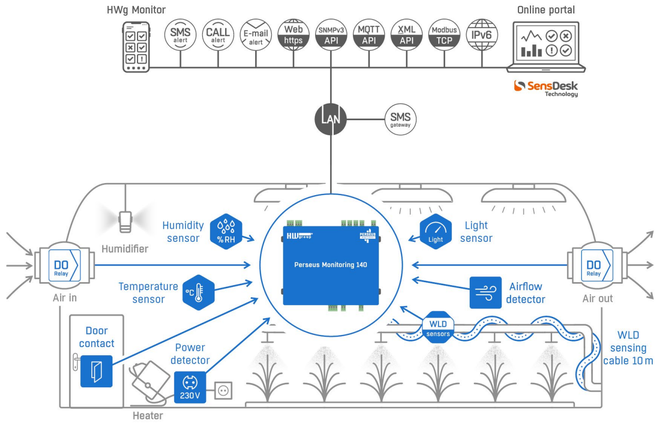


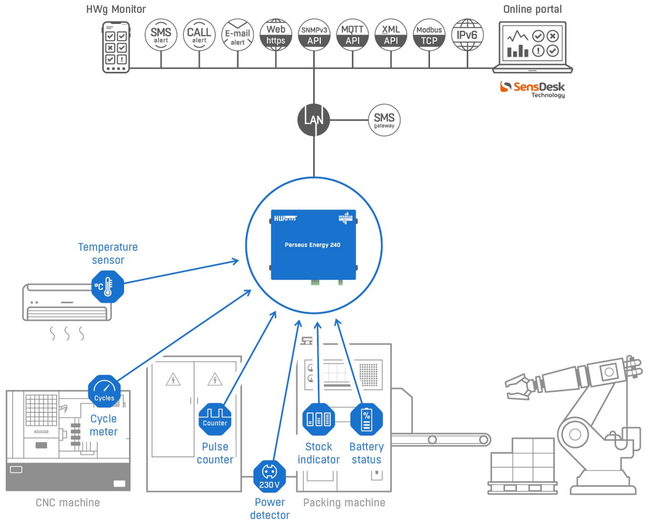
New Perseus solutions will be published soon

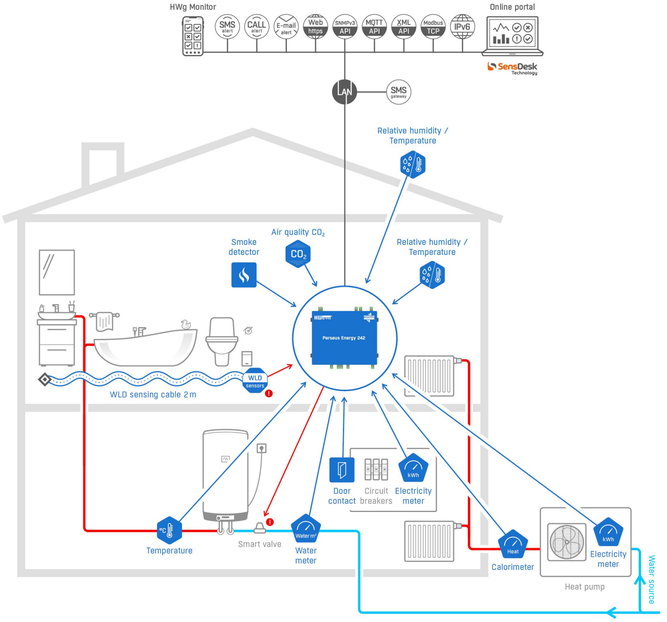












Case Studies – we want them

Case Study of Tair Gafr Wines

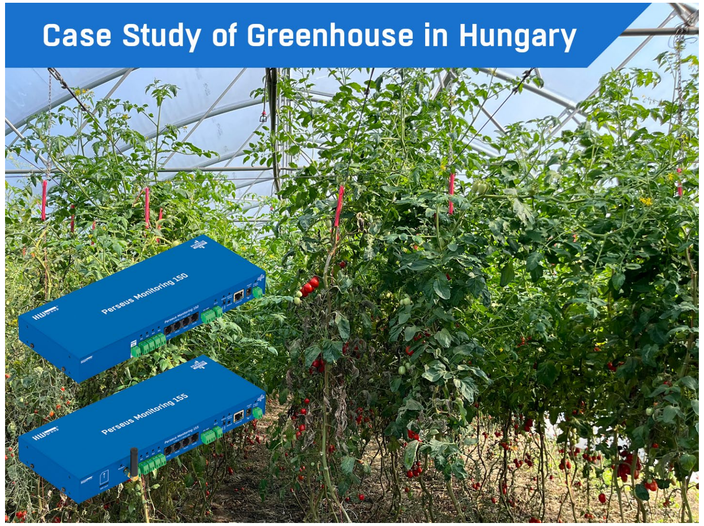
Case Study of Ethiopian Airlines

Case Study of Onsemi

Case Study of PVA systems

Case Study of Amos School

Case Study of Greenhouse in Hungary



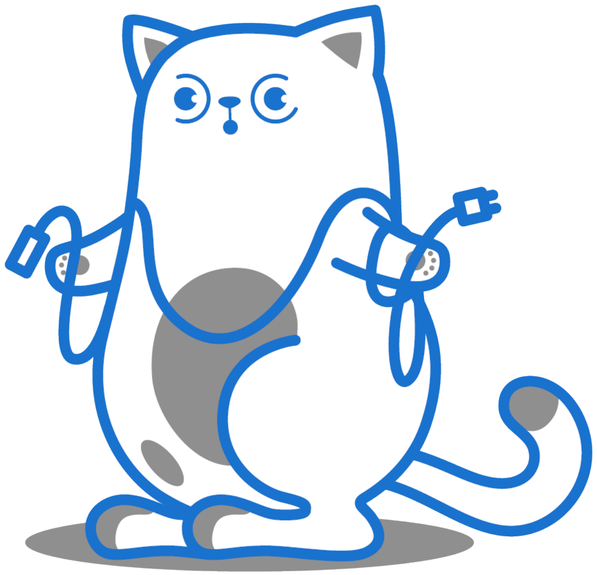
This form is going to help us

Technical Feedback / Case Study Questionnaire

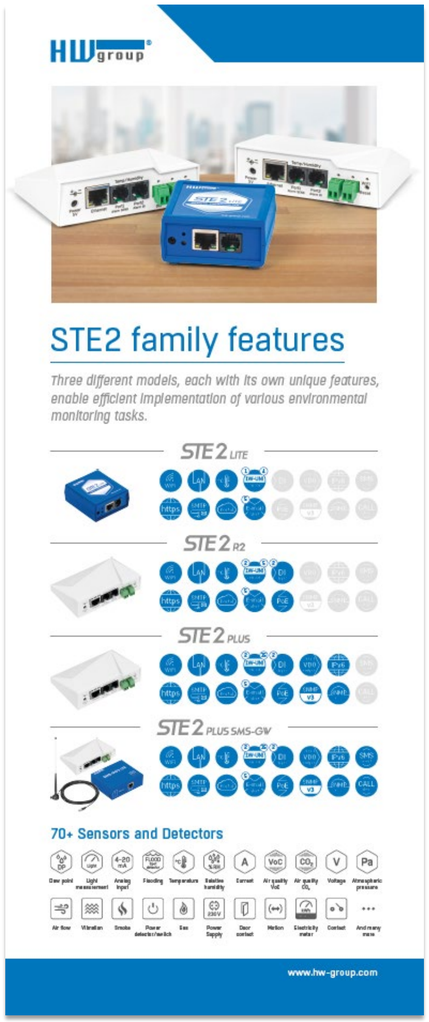
Welcome to the HW group Feedback Form!

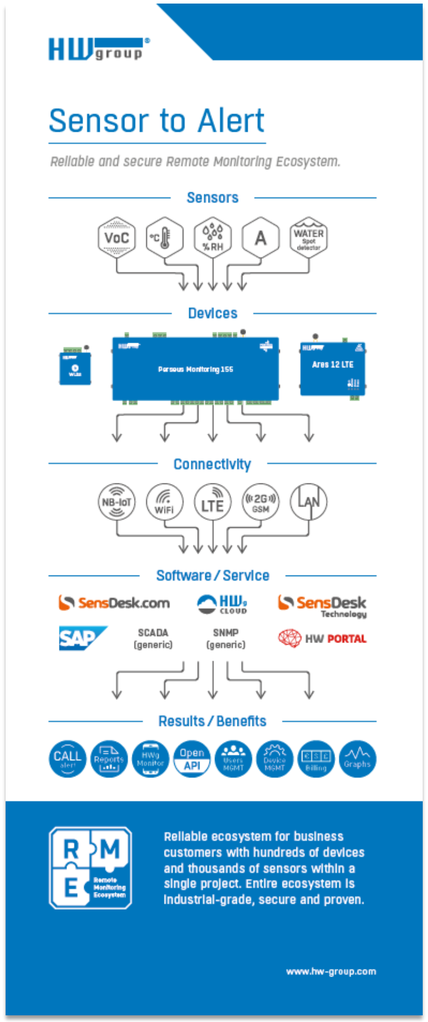
With this form, we at HW group would like to ask you a few questions that will help us understand the real-world use and application of our products and services.

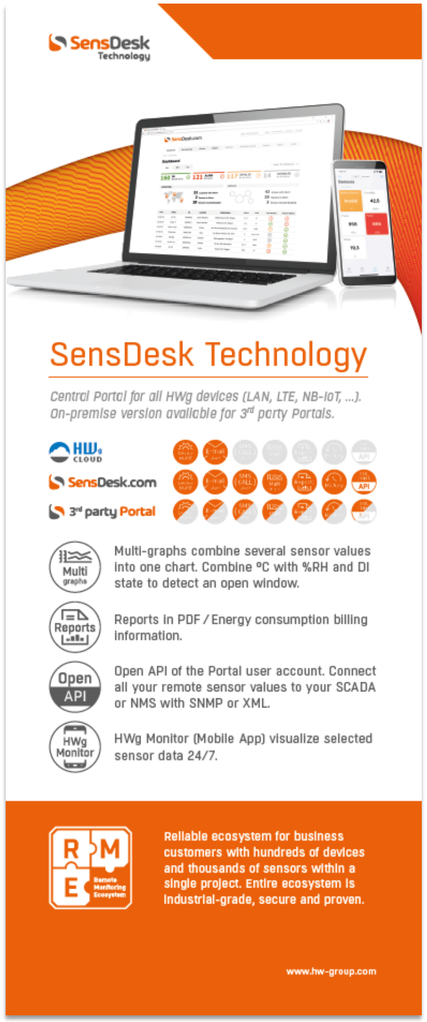
In addition, if your customer is willing to publicly share details of the project with HW group products in it, please send us photos and a brief description of the project - we will do our best to create a case study for our website that highlights your company providing the solution and your customer using HW group solution in a monitoring project.



New physical marketing materials







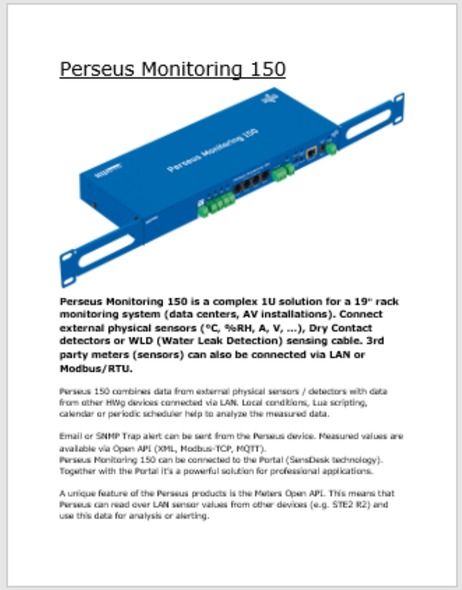
2025 product catalog is available – write us to get it.

Perseus marketing package

We do our best to give you everything you need in marketing with Perseus:

- Web Information
- Flyers, including video
- Web schematics / Application Photos / Featured Photos
- Banners
- Webinars
- Newsletters
- And we want to try promotional videos with Perseus!

WebInfo



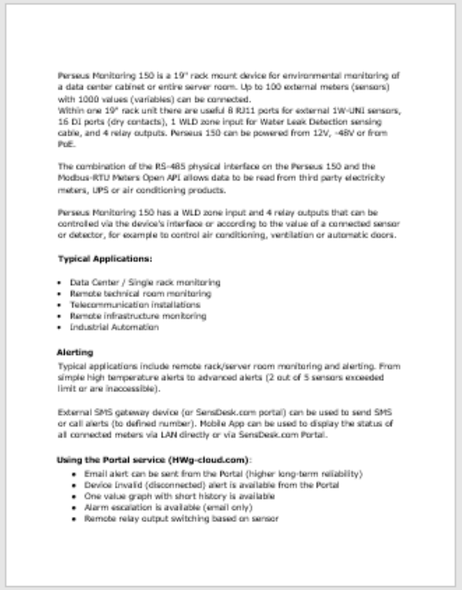
Perseus Monitoring 150

Perseus Monitoring 150 is a complex 1U solution for a 19" rack monitoring system (data centers, AV installations). Connect external physical sensors (°C, %RH, A, V, ...), Dry Contact detectors or WLD (Water Leak Detection) sensing cable. 3rd party meters (sensors) can also be connected via LAN or Modbus/RTU.

Perseus 150 combines data from external physical sensors / detectors with data from other HWg devices connected via LAN. Local conditions, Lua scripting, calendar or periodic scheduler help to analyze the measured data.

Email or SNMP Trap alert can be sent from the Perseus device. Measured values are available via Open API (XML, Modbus-TCP, MQTT).
Perseus Monitoring 150 can be connected to the Portal (SensDesk technology). Together with the Portal it's a powerful solution for professional applications.

A unique feature of the Perseus products is the Meters Open API. This means that Perseus can read over LAN sensor values from other devices (e.g. STE2 R2) and use this data for analysis or alerting.



Perseus Monitoring 150 is a 19" rack mount device for environmental monitoring of a data center cabinet or entire server room. Up to 100 external meters (sensors) with 1000 values (variables) can be connected.
Within one 19" rack unit there are useful 8 RJ11 ports for external 1W-UNI sensors, 16 DI ports (dry contacts), 1 WLD zone input for Water Leak Detection sensing cable, and 4 relay outputs. Perseus 150 can be powered from 12V, -48V or from PoE.

The combination of the RS-485 physical interface on the Perseus 150 and the Modbus-RTU Meters Open API allows data to be read from third party electricity meters, UPS or air conditioning products.

Perseus Monitoring 150 has a WLD zone input and 4 relay outputs that can be controlled via the device's interface or according to the value of a connected sensor or detector, for example to control air conditioning, ventilation or automatic doors.

Typical Applications:

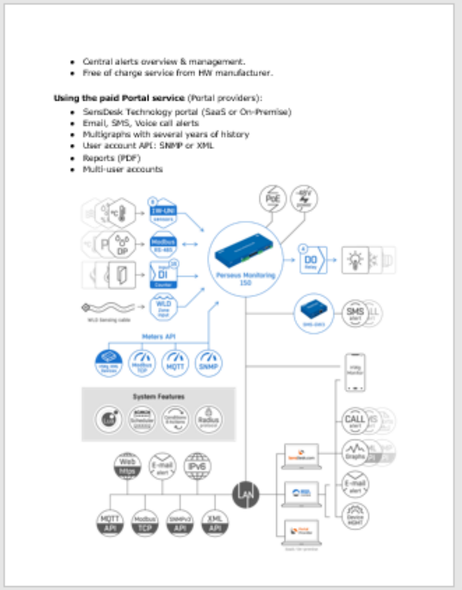
- Data Center / Single rack monitoring
- Remote technical room monitoring
- Telecommunication installations
- Remote infrastructure monitoring
- Industrial Automation

Alerting
Typical applications include remote rack/server room monitoring and alerting. From simple high temperature alerts to advanced alerts (2 out of 5 sensors exceeded limit or are inaccessible).

External SMS gateway device (or SensDesk.com portal) can be used to send SMS or call alerts (to defined number). Mobile App can be used to display the status of all connected meters via LAN directly or via SensDesk.com Portal.

Using the Portal service (HWg-cloud.com):

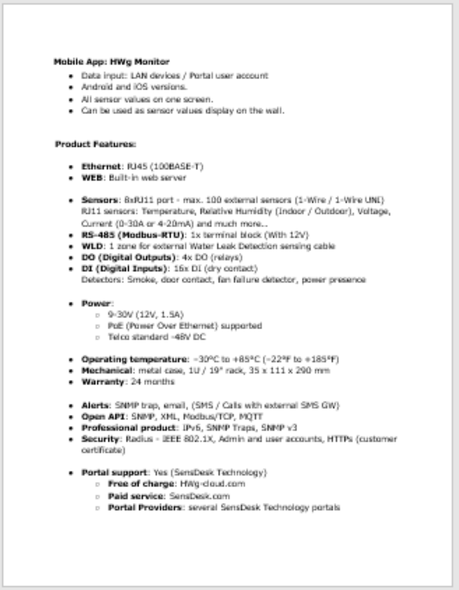
- Email alert can be sent from the Portal (higher long-term reliability)
- Device invalid (disconnected) alert is available from the Portal
- One value graph with short history is available
- Alarm escalation is available (email only)
- Remote relay output switching based on sensor



- Central alerts overview & management.
- Free of charge service from HW manufacturer.

Using the paid Portal service (Portal providers):

- SensDesk Technology portal (SaaS or On-Premise)
- Email, SMS, Voice call alerts
- Multigraphs with several years of history
- User account API: SNMP or XML
- Reports (PDF)
- Multi-user accounts

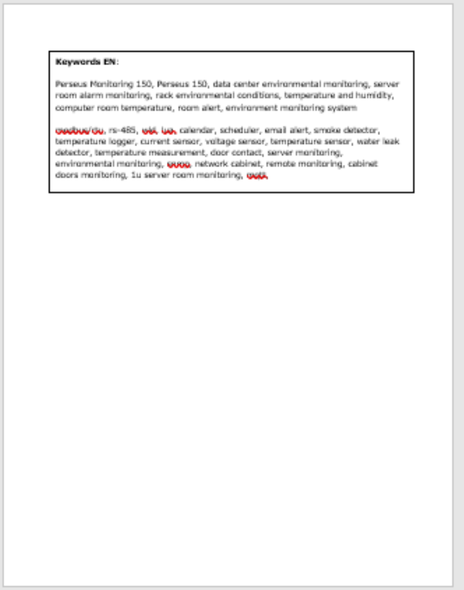


Mobile App: HWg Monitor

- Data input: LAN devices / Portal user account
- Android and iOS versions.
- All sensor values on one screen.
- Can be used as sensor values display on the wall.

Product Features:

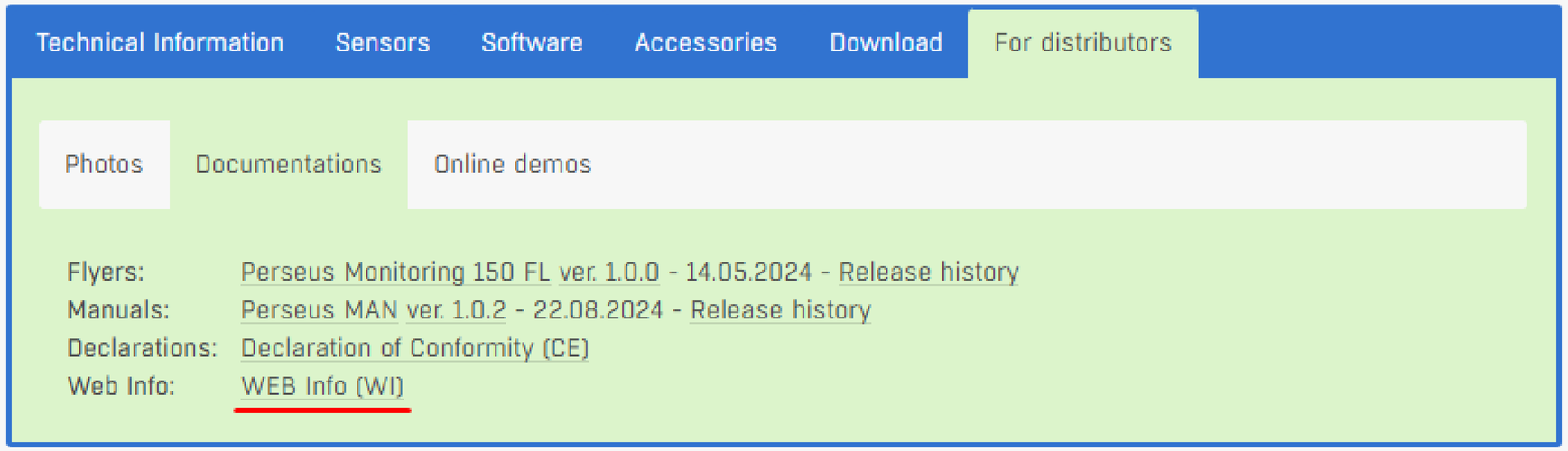
- **Ethernet**: RJ45 (100BASE-T)
- **WEB**: Built-in web server
- **Sensors**: 8xRJ11 port - max. 100 external sensors (1-Wire / 1-Wire UNI)
  RJ11 sensors: Temperature, Relative Humidity (indoor / Outdoor), Voltage, Current (0-30A or 4-20mA) and much more..
- **RS-485 (Modbus-RTU)**: 1x terminal block (With 12V)
- **WLD**: 1 zone for external Water Leak Detection sensing cable
- **DO (Digital Outputs)**: 4x DO (relays)
- **DI (Digital Inputs)**: 16x DI (dry contact)
  Detectors: Smoke, door contact, fan failure detector, power presence
- **Power**:
  - 9-30V (12V, 1.5A)
  - PoE (Power Over Ethernet) supported
  - Telco standard -48V DC
- **Operating temperature**: -30°C to +85°C (-22°F to +185°F)
- **Mechanical**: metal case, 1U / 19" rack, 35 x 111 x 290 mm
- **Warranty**: 24 months
- **Alerts**: SNMP trap, email, (SMS / Calls with external SMS GW)
- **Open API**: SNMP, XML, Modbus/TCP, MQTT
- **Professional product**: IPv6, SNMP Traps, SNMP v3
- **Security**: Radius - IEEE 802.1X, Admin and user accounts, HTTPs (customer certificate)
- **Portal support**: Yes (SensDesk Technology)
  - **Free of charge**: HWg-cloud.com
  - **Paid service**: SensDesk.com
  - **Portal Providers**: several SensDesk Technology portals



Keywords EN:

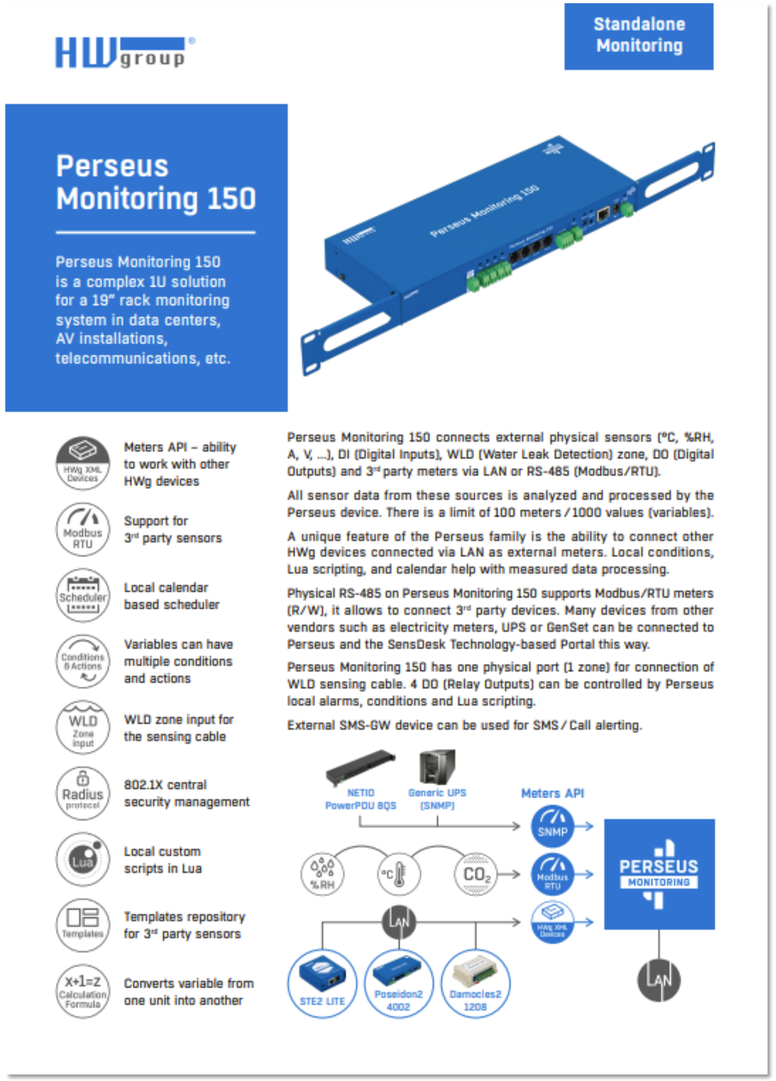
Perseus Monitoring 150, Perseus 150, data center environmental monitoring, server room alarm monitoring, rack environmental conditions, temperature and humidity, computer room temperature, room alert, environment monitoring system

~~modbus/DO~~, rs-485, ~~old~~, ~~up~~, calendar, scheduler, email alert, smoke detector, temperature logger, current sensor, voltage sensor, temperature sensor, water leak detector, temperature measurement, door contact, server monitoring, environmental monitoring, ~~power~~ network cabinet, remote monitoring, cabinet doors monitoring, 1u server room monitoring, ~~web~~.



Available for each product on HWg web

Flyers



HW group

Standalone Monitoring

Perseus Monitoring 150

Perseus Monitoring 150 is a complex 1U solution for a 19" rack monitoring system in data centers, AV installations, telecommunications, etc.

- Meters API – ability to work with other HWg devices
- Support for 3rd party sensors
- Local calendar based scheduler
- Variables can have multiple conditions and actions
- WLD zone input for the sensing cable
- 802.1X central security management
- Local custom scripts in Lua
- Templates repository for 3rd party sensors
- Converts variable from one unit into another

Perseus Monitoring 150 connects external physical sensors (°C, %RH, A, V, ...), DI (Digital Inputs), WLD (Water Leak Detection) zone, DO (Digital Outputs) and 3rd party meters via LAN or RS-485 (Modbus/RTU).

All sensor data from these sources is analyzed and processed by the Perseus device. There is a limit of 100 meters / 1000 values (variables).

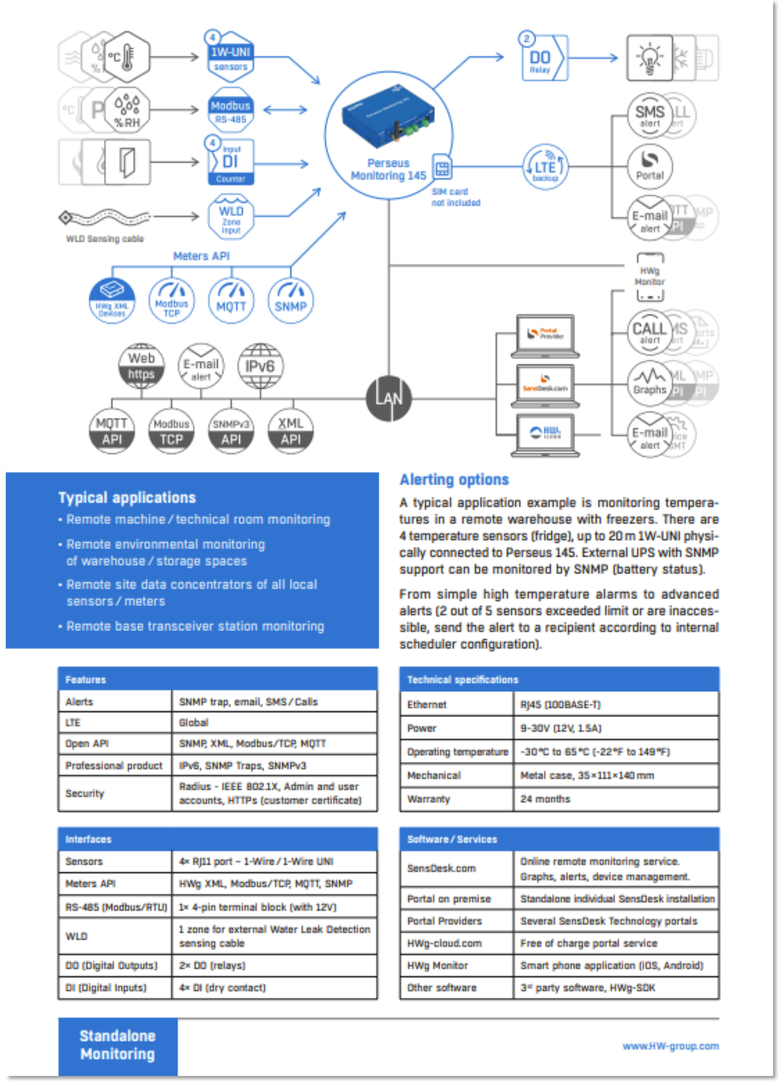
A unique feature of the Perseus family is the ability to connect other HWg devices connected via LAN as external meters. Local conditions, Lua scripting, and calendar help with measured data processing.

Physical RS-485 on Perseus Monitoring 150 supports Modbus/RTU meters (R/W), it allows to connect 3rd party devices. Many devices from other vendors such as electricity meters, UPS or GenSet can be connected to Perseus and the SensDesk Technology-based Portal this way.

Perseus Monitoring 150 has one physical port (1 zone) for connection of WLD sensing cable. 4 DO (Relay Outputs) can be controlled by Perseus local alarms, conditions and Lua scripting.

External SMS-GW device can be used for SMS / Call alerting.

QR-codes (PDF version) in printed versions



Typical applications

- Remote machine / technical room monitoring
- Remote environmental monitoring of warehouse / storage spaces
- Remote site data concentrators of all local sensors / meters
- Remote base transceiver station monitoring

Alerting options

A typical application example is monitoring temperatures in a remote warehouse with freezers. There are 4 temperature sensors (fridge), up to 20 m 1W-UNI physically connected to Perseus 145. External UPS with SNMP support can be monitored by SNMP (battery status).

From simple high temperature alarms to advanced alerts (2 out of 5 sensors exceeded limit or are inaccessible, send the alert to a recipient according to internal scheduler configuration).

Features	
Alerts	SNMP trap, email, SMS / Calls
LTE	Global
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)

Technical specifications	
Ethernet	RJ45 (100BASE-T)
Power	9-30V (12V, 1.5A)
Operating temperature	-30 °C to 65 °C (-22 °F to 149 °F)
Mechanical	Metal case, 35×111×140 mm
Warranty	24 months

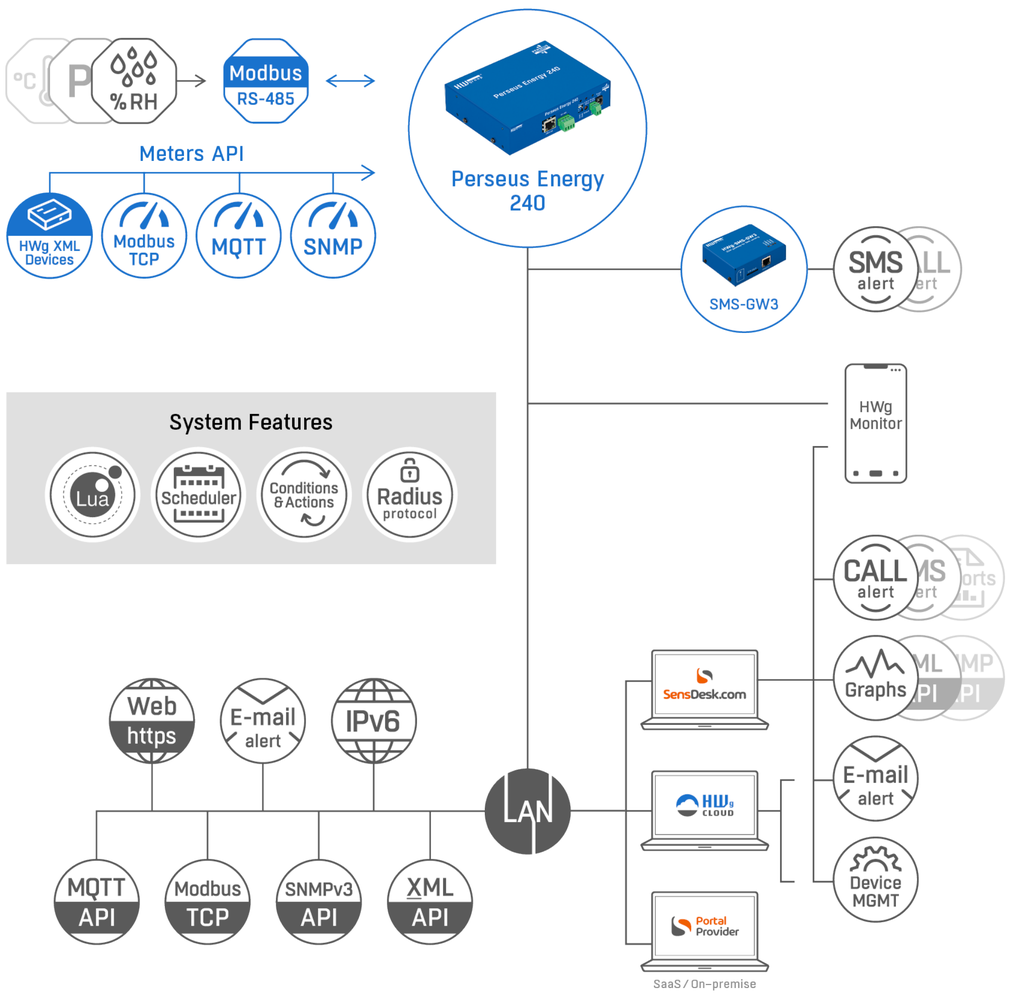
Interfaces	
Sensors	4× RJ11 port – 1-Wire / 1-Wire UNI
Meters API	HWg XML, Modbus/TCP, MQTT, SNMP
RS-485 (Modbus/RTU)	1× 4-pin terminal block (with 12V)
WLD	1 zone for external Water Leak Detection sensing cable
DO (Digital Outputs)	2× DO (relays)
DI (Digital Inputs)	4× DI (dry contact)

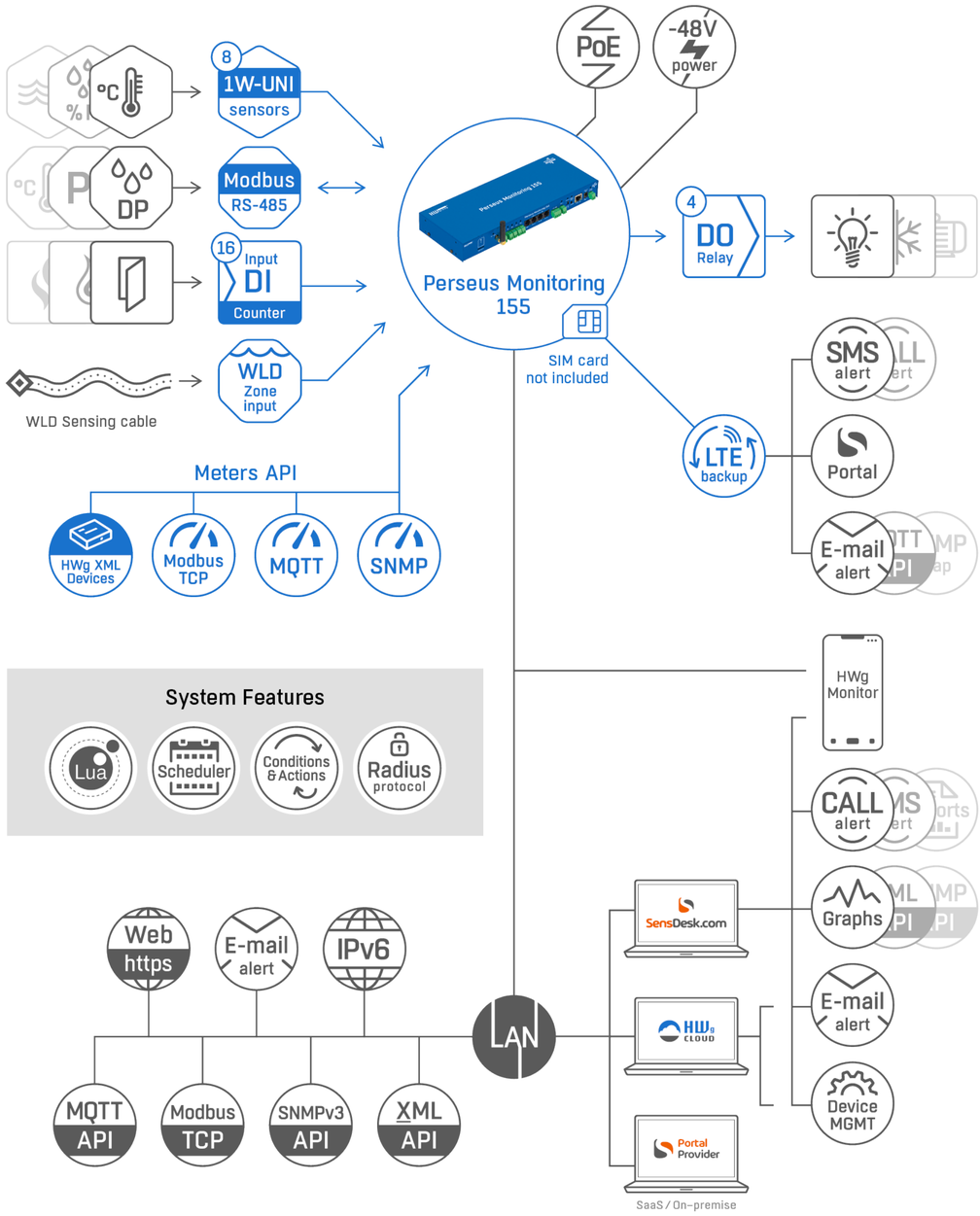
Software / Services	
SensDesk.com	Online remote monitoring service. Graphs, alerts, device management.
Portal on premise	Standalone individual SensDesk installation
Portal Providers	Several SensDesk Technology portals
HWg-cloud.com	Free of charge portal service
HWg Monitor	Smart phone application (iOS, Android)
Other software	3rd party software, HWg-SDK

Standalone Monitoring

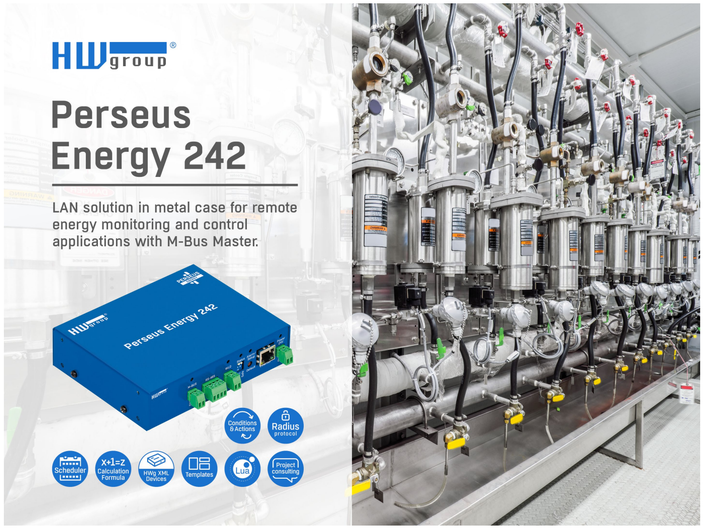
www.HW-group.com

Schematics


°C
P
%RH
Modbus
RS-485
Meters API
HWg XML Devices
Modbus TCP
MQTT
SNMP
Perseus Energy 240
SMS-GW3
SMS alert
HWg Monitor
System Features
Lua
Scheduler
Conditions & Actions
Radius protocol
CALL alert
Graphs
E-mail alert
Device MGMT
Web https
E-mail alert
IPv6
LAN
SensDesk.com
HWg CLOUD
Portal Provider
MQTT API
Modbus TCP
SNMPv3 API
XML API
SaaS / On-premise


°C
%
P
DP
8
1W-UNI sensors
Modbus
RS-485
16
Input
DI
Counter
WLD
Zone input
WLD Sensing cable
PoE
-48V power
Perseus Monitoring 155
SIM card not included
4
DO
Relay
LTE backup
SMS alert
Portal
E-mail alert
Meters API
HWg XML Devices
Modbus TCP
MQTT
SNMP
System Features
Lua
Scheduler
Conditions & Actions
Radius protocol
HWg Monitor
CALL alert
Graphs
E-mail alert
Device MGMT
Web https
E-mail alert
IPv6
LAN
SensDesk.com
HWg CLOUD
Portal Provider
MQTT API
Modbus TCP
SNMPv3 API
XML API
SaaS / On-premise

Application Photos



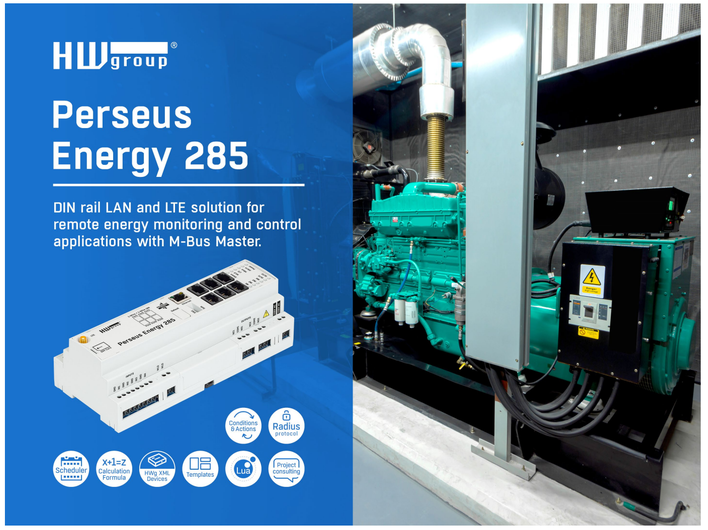
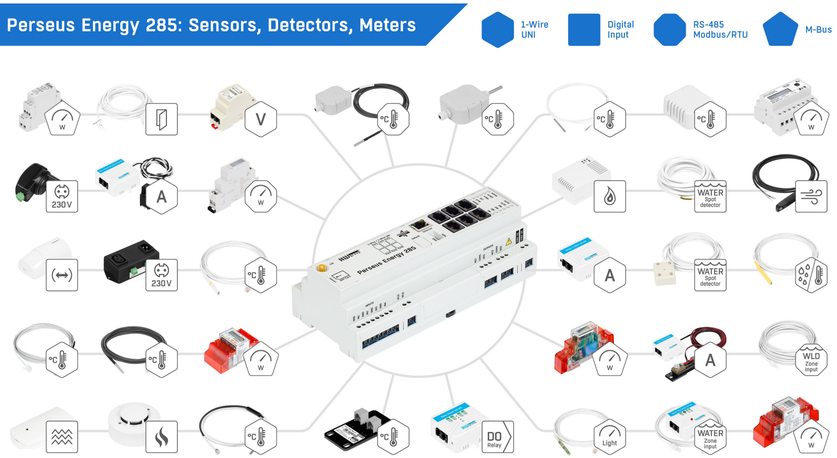


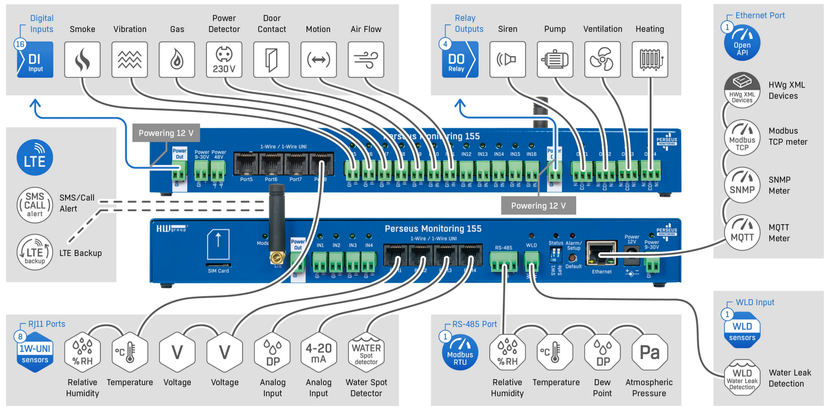
Image photos

Feature Photos

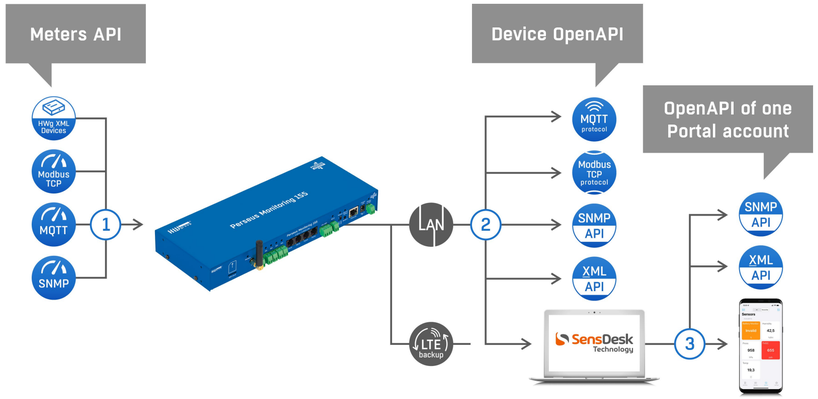
Perseus Energy 285: Sensors, Detectors, Meters



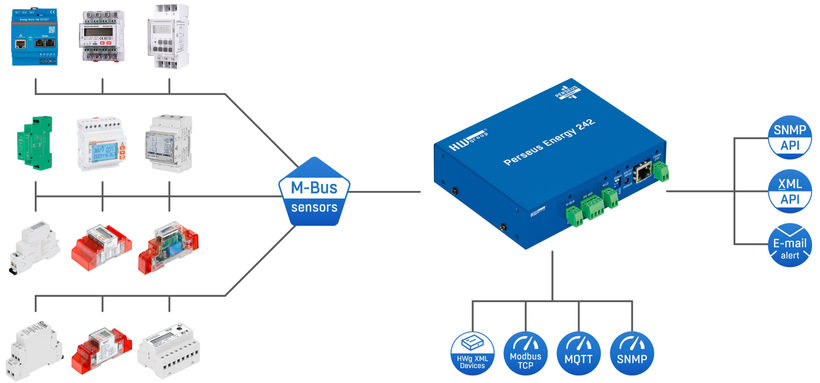
Perseus Monitoring 155: Interfaces



Perseus Monitoring 155: 3× API



Perseus Energy 242: M-Bus sensors



Video walkthrough

Standalone Monitoring

Perseus Platform

From start-up to e-mail alert

Already on HWg channel on YouTube