



**Promo materials**

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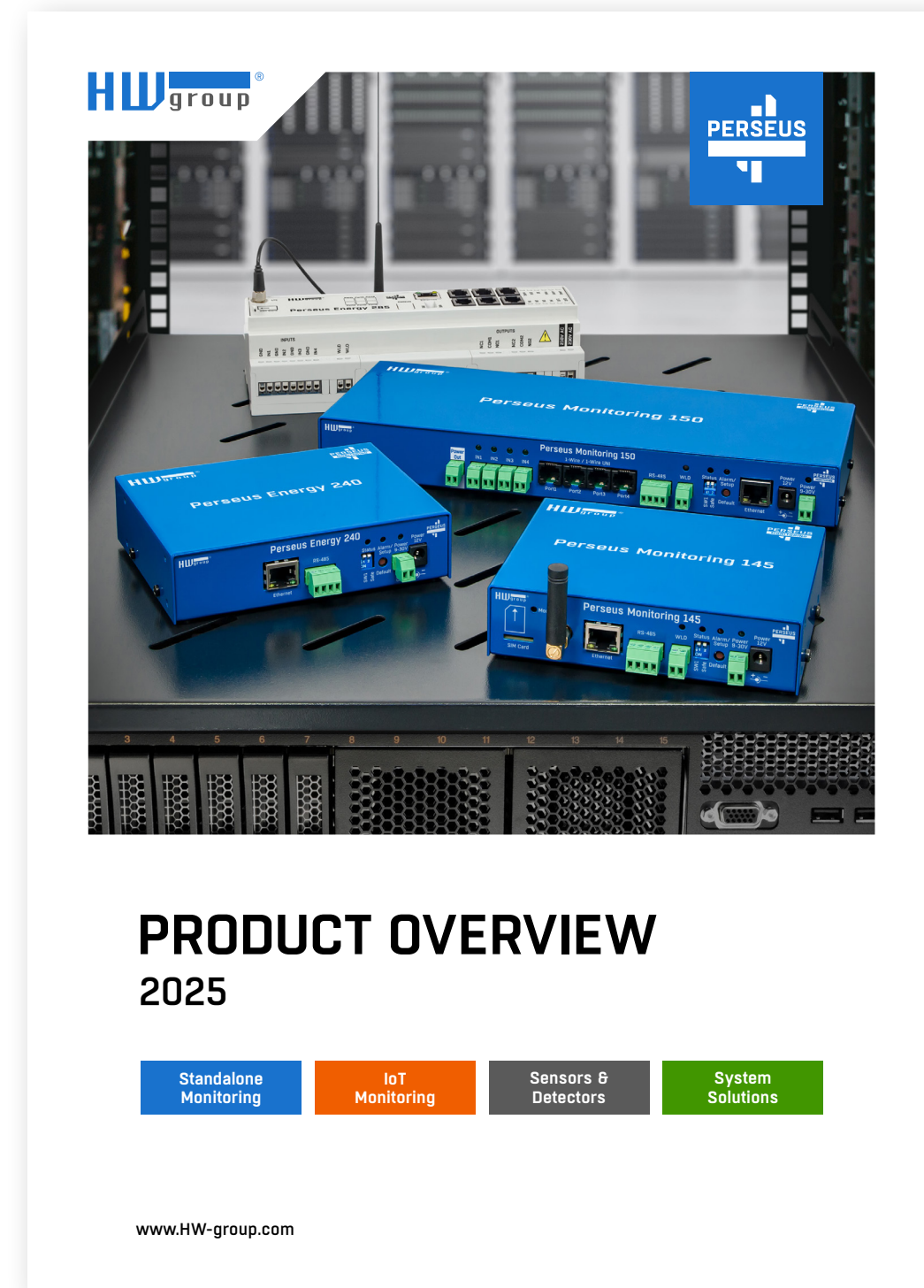
# Portfolio

- Overview Catalog
- Flyers
- Roll-ups



# Overview Catalog (210 x 297 mm)

## Product Overview 2025



	Ethernet / web interface	PoE (Power over Ethernet)	Wi-Fi	GSM/LTE	NB-IoT	HWg XML Devices	IGLL sensors (1-Wire/1-Wire UNI values)	IGLL ports	Modbus	WLD zones	DI (Digital Input)	AI (Analog Input 4-20 mA)	DO (Digital Output)	VDD (Virtual Digital Output)	Heaters API	Heater power -48 V	Heater power -24 V	Heater power -12 V	SensDesk.com (Data service)	HTTP	HTTPS	E-mail alerts / reports notification	SMS - Call Ring notification	SNMP v1/v2 (Open API)	SNMP v3 (Open API)	Web API (Open API)	Heater API (Open API)	MQTT (Open API)	IP-G
Ares 12 GSM/LTE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Damocles2 120B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Damocles2 240A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Damocles2 MINI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HWg-PWR25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IP WatchDog Lite	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IP WLD Industrial	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Perseus Energy 240	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Perseus Energy 285	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Perseus Monitoring 140	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Perseus Monitoring 145	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Perseus Monitoring 150	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Perseus Monitoring 155	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Poseidon2 325B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Poseidon2 340B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Poseidon2 4002	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SMS-GW3 GSM/LTE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
STE2 LITE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
STE2 PLUS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
STE2 R2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLD2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NB-2x1Wire	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NB-2x1n	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NB-2xOut	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NB-WLD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ - available  
 ✓ - available on request  
 ✓ - available through SensDesk.com and 3<sup>rd</sup> party portals  
 \* - to send Alert SMS & Calls you will need HWg-SMS-GW3 (LTE) device on LAN or connect the device to the SensDesk.com service via Internet.

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# Flyer A4 (210 × 297 mm)

## Perseus Monitoring 140



Standalone Monitoring

**Perseus Monitoring 140**

Perseus Monitoring 140 is a middle-sized solution for remote environment monitoring on site with LAN connectivity.

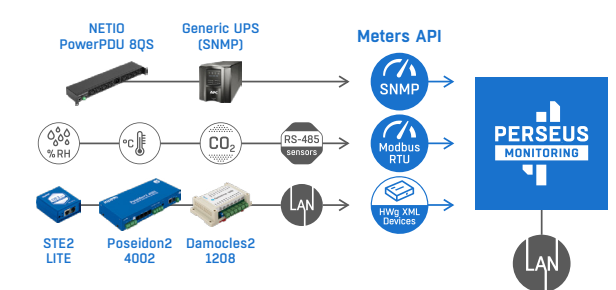
- Meters API – ability to work with other HWg devices
- Support for 3<sup>rd</sup> party sensors
- Local calendar based scheduler
- Variables can have multiple conditions and actions
- WLD zone input for the sensing cable
- 802.1X central security management
- Local custom scripts in Lua
- Templates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

This device 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 analyse the measured data. The alert situation can be indicated locally by switching DO (relay outputs), sent from the device as standalone 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).

External sensors can be connected via 4x RJ11 ports (1W-UNI sensors from HW group) or via RS-485 (Modbus/RTU sensors). 4x DI (Digital Inputs) can be used to connect detectors (open/closed contacts). 2x DO (Relay outputs) can be controlled via the device's interface or switched according to the value of selected sensor/detector.


External water sensing cable up to 185m in total length can be connected to 1x WLD zone port (Water Leak Detection).

Meters API is a unique feature of Perseus products – reading values from external LAN devices. This means that Perseus can connect via LAN to other devices on the same network and analyse their sensor data.



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## Perseus Monitoring 145



Standalone Monitoring

**Perseus Monitoring 145**

Perseus Monitoring 145 is a solution for remote monitoring on site with or even without LAN, there is an LTE modem for connectivity backup.

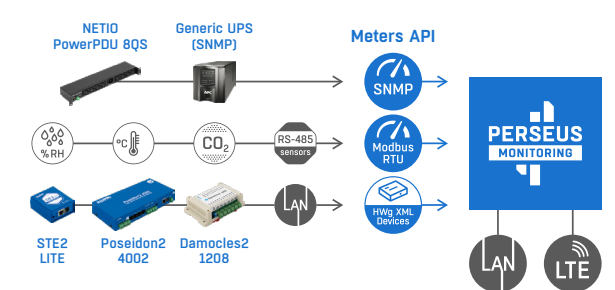
- Integrated LTE modem for backup connectivity and SMS/Call alerts
- Meters API – ability to work with other HWg devices
- Support for 3<sup>rd</sup> party sensors
- Variables can have multiple conditions and actions
- Local calendar based scheduler
- WLD zone input for the sensing cable
- 802.1X central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

This device 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 analyse the measured data. The alert situation can be indicated locally by switching DO (relay outputs), sent from the device as standalone 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).

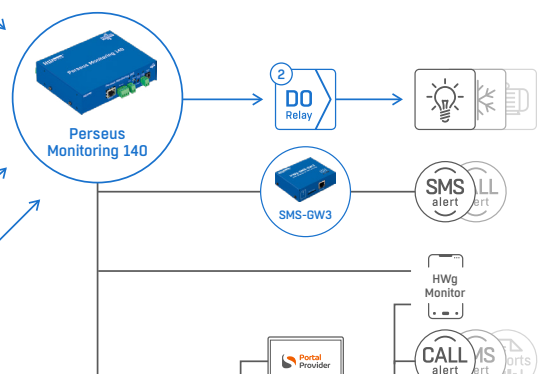
External sensors can be connected via 4x RJ11 ports (1W-UNI sensors from HW group) or via RS-485 (Modbus/RTU sensors). 4x DI (Digital Inputs) can be used to connect detectors (open/closed contacts). 2x DO (Relay outputs) can be controlled via the device's interface or switched according to the value of selected sensor/detector.

Meters API is a unique feature of Perseus products – reading values from external LAN devices. This means that Perseus can connect via LAN to other devices on the same network and analyse their sensor data.

Internal LTE modem allows for backup connectivity to the Portal, as well as SMS and Call alerts. The Perseus 145 internal LTE modem can also be configured as an SMS gateway for other HW group devices.

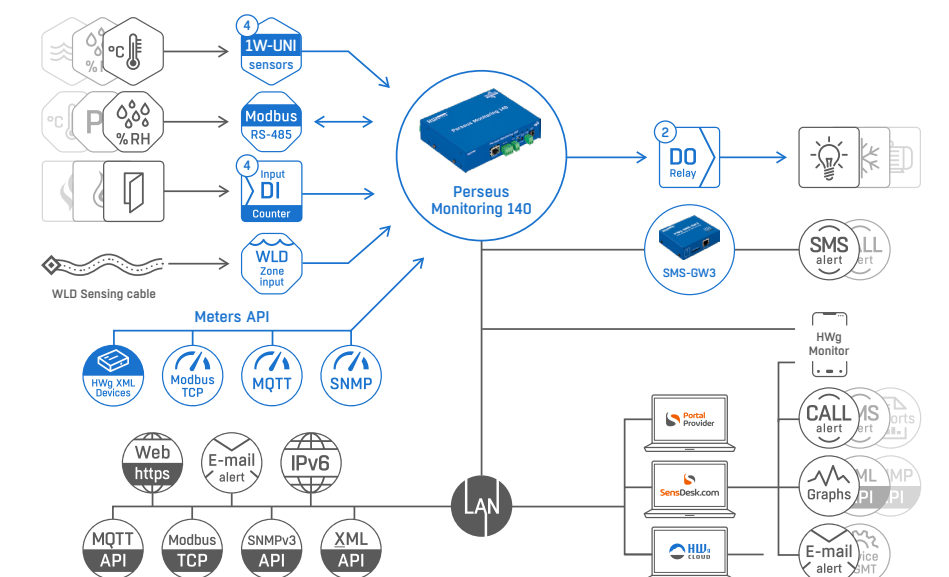


Front page



Standalone Monitoring

**Perseus Monitoring 140**



**Typical applications**

- Remote machine / technical room monitoring
- Remote environmental monitoring of warehouse / storage spaces
- Remote site data concentrators of all local sensors / meters
- Pharmaceutical / HVAC environment monitoring

**Alerting options**

A typical application example is monitoring temperatures in a remote warehouse with freezers. There are 4 temperature sensors (fridge), up to 20m 1W-UNI physically connected to Perseus 140. 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).

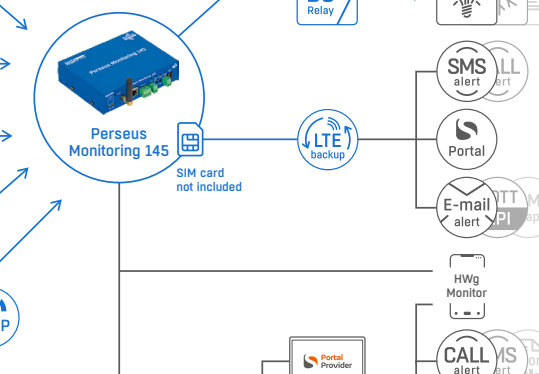
Features	
Alerts	SNMP trap, email, SMS / Calls with external SMS GW
Open API	SNMP, XML, Modbus/TCP, MQTT
Professional product	IPv6, SNMP Traps, SNMPv3
Security	Radius - IEEE 802.1X, Admin and user accounts, HTTPS (customer certificate)

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, 35x111x140mm
Warranty	24 months

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

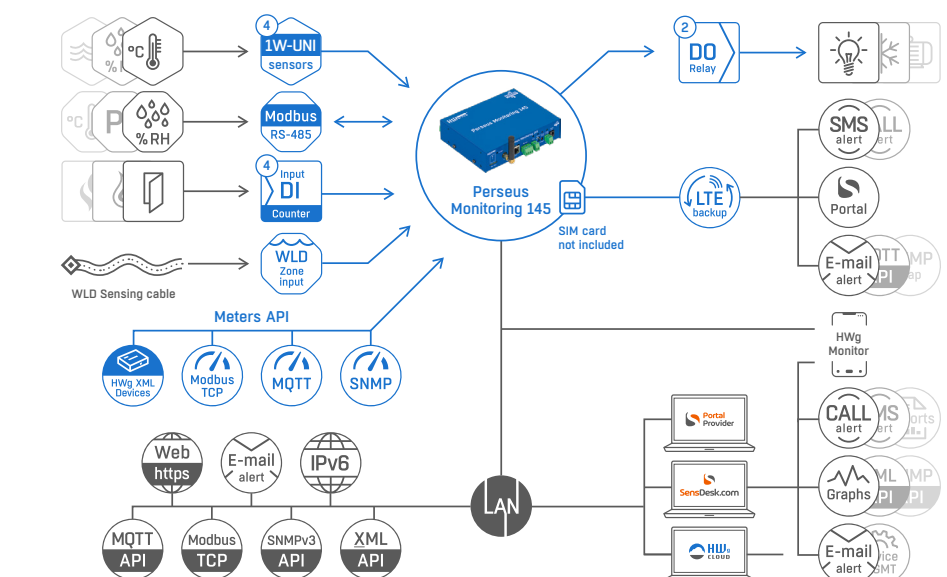
Software / Services	
SensDesk.com	Online remote monitoring service. Graphs, alerts, device management.
Portal on premise	Standalone individual SensDesk installation
Portal Providers	Several SensDesk Technology portals
HWg-cloud.com	Free of charge portal service
HWg Monitor	Smart phone application (iOS,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

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Standalone Monitoring

**Perseus Monitoring 145**



**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 20m 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, 35x111x140mm
Warranty	24 months


Interfaces	
Sensors	4x RJ11 port - 1-Wire/1-Wire UNI
Meters API	HWg XML, Modbus/TCP, MQTT, SNMP
RS-485 (Modbus/RTU)	1x 4-pin terminal block (with 12V)
WLD	1 zone for external Water Leak Detection sensing cable
DO (Digital Outputs)	2x DO (relays)
DI (Digital Inputs)	4x 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	3 <sup>rd</sup> party software, HWg-SDK

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# Flyer A4 (210 × 297 mm)

## Perseus Monitoring 150



Standalone Monitoring

**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 3<sup>rd</sup> 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 3<sup>rd</sup> 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 3<sup>rd</sup> party meters via LAN or RS-485 (Modbus/RTU).

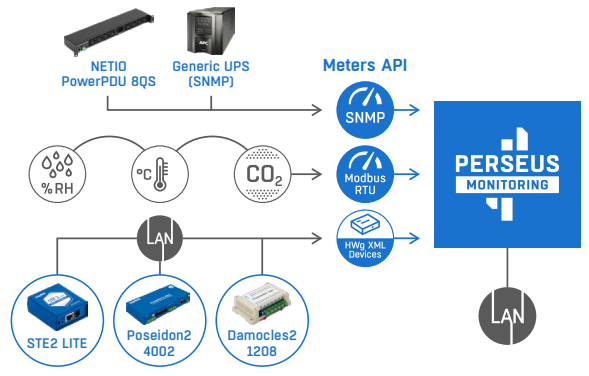
All sensor data from these sources is analyzed and processed by the Perseus device. There is a limit of 100 meters/1000 values (variables).

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.

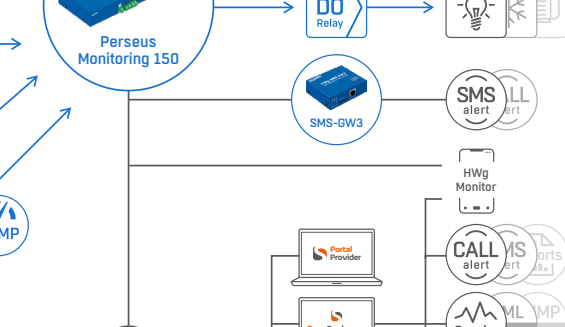
Physical RS-485 on Perseus Monitoring 150 supports Modbus/RTU meters (R/W), it allows to connect 3<sup>rd</sup> party devices. Many devices from other vendors such as electricity meters, UPS or GenSet can be connected to Perseus and the SensDesk Technology-based Portal this way.

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.



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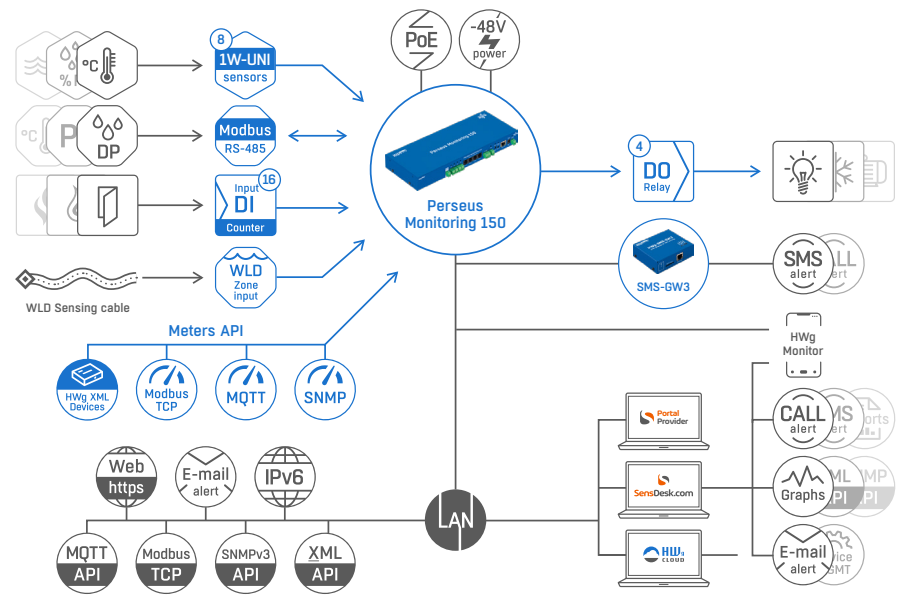


Standalone Monitoring

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

**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. Several alerting options are supported by Perseus (SNMP trap, Output switching, Email, etc.), allowing flexible alert setup.

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

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)

Technical specifications	
Ethernet	RJ45 (100BASE-T)
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/1.9" rack, 35×111×290mm
Warranty	24 months

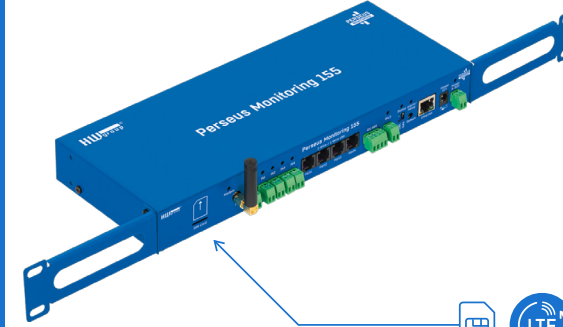
Interfaces	
Sensors	8× RJ11 port – 1-Wire/1-Wire UNI
Meters API	HWg XML, Modbus/TCP, MQTT, SNMP
RS-485 (Modbus/RTU)	1× 4-pin terminal block (with 12V)
WLD	1 zone for external Water Leak Detection sensing cable
DO (Digital Outputs)	4× DO (relays)
DI (Digital Inputs)	16× DI (dry contact)

**Software / Services**

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

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## Perseus Monitoring 155



Standalone Monitoring

**Perseus Monitoring 155** is a complex 1U solution for a 19" rack monitoring system in data centers, AV installations, telecommunications, etc. Integrated LTE modem provides backup connectivity and SMS / Call alerts.

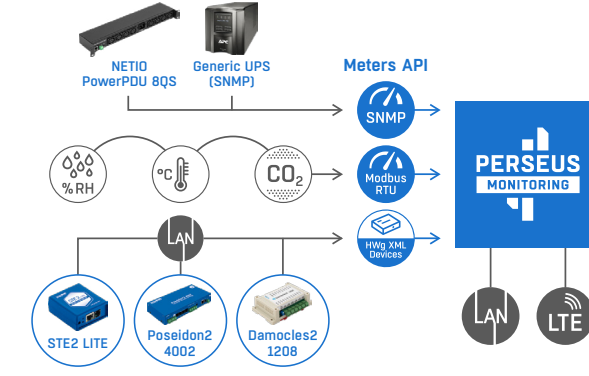
- Integrated LTE modem for backup connectivity and SMS/Call alerts
- Meters API – ability to work with other HWg devices
- Support for 3<sup>rd</sup> party sensors
- Variables can have multiple conditions and actions
- Local calendar based scheduler
- WLD zone input for the sensing cable
- 802.1X central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

Perseus Monitoring 155 uses LAN as the primary connection and LTE as a backup connection when LAN is unavailable. The device connects external physical sensors (°C, %RH, A, V, ...), DI (Digital Inputs), WLD (Water Leak Detection) zone, DO (Digital Outputs) and 3<sup>rd</sup> party meters via LAN or RS-485 (Modbus/RTU). All sensor data is analyzed and processed by the Perseus device. There is a limit of 100 meters/1000 values (variables).

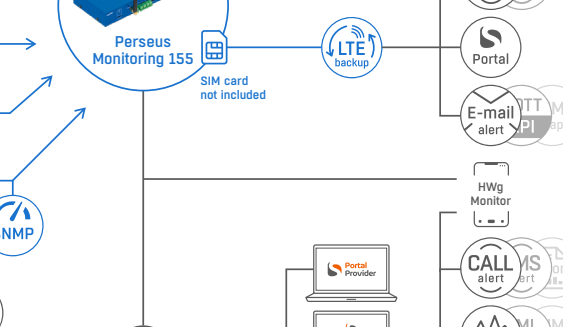
A unique feature of the Perseus family is the ability to connect other HWg devices connected via LAN as external meters. Local conditions, Lua scripting, and calendar help with measured data processing.

Physical RS-485 supports Modbus/RTU meters (R/W), it allows to connect 3<sup>rd</sup> 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.

For email alerting, we recommend to use Portal - it's faster and more reliable in case of LAN / LTE connectivity combination.



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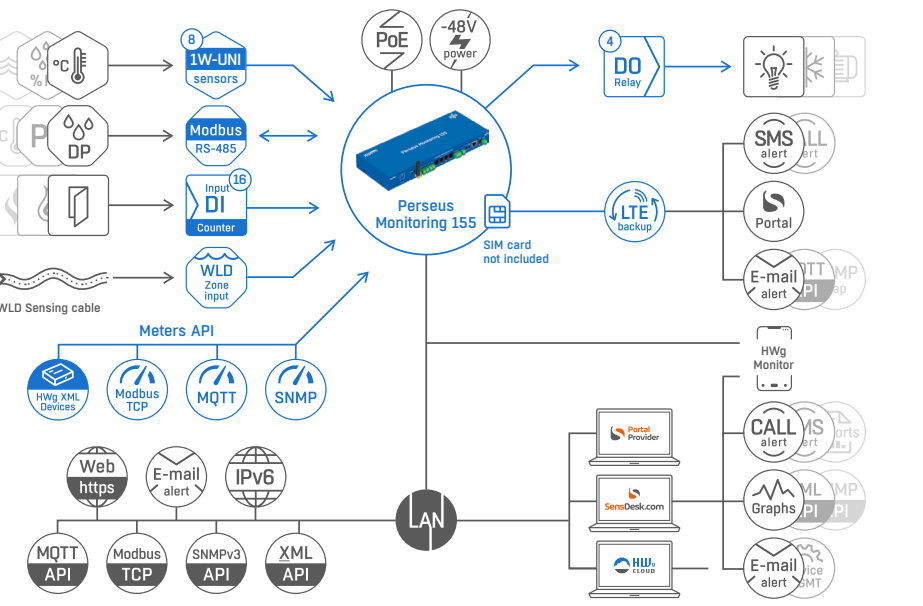


Standalone Monitoring

**Perseus Monitoring 155** is a complex 1U solution for a 19" rack monitoring system in data centers, AV installations, telecommunications, etc. Integrated LTE modem provides backup connectivity and SMS / Call alerts.

**Typical applications**

- Critical infrastructure remote monitoring
- Data Center / Single rack monitoring
- Fridge / Freezers monitoring
- Technical room / infrastructure monitoring
- Telecommunication installations



**Alerting**

Typical applications include remote rack / server room monitoring and alerting. Several alerting options are supported by Perseus (Email, SMS, Call, SNMP trap, Output switching, etc.), allowing flexible alert setup.

Internal LTE modem can be used for informing the Portal in case of power failure (email / SMS alerting from the Portal). Mobile App can be used to display the status of all connected meters via LAN directly or via SensDesk.com Portal.

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) PoE (Power Over Ethernet) supported Telco standard -48V DC
Operating temperature	-30°C to 85°C (-22°F to 149°F)
Mechanical	Metal case, 1U/1.9" rack, 35×111×290mm
Warranty	24 months

Interfaces	
Sensors	8× 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)	4× DO (relays)
DI (Digital Inputs)	16× DI (dry contact)


**Software / Services**

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

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# Flyer A4 (210 × 297 mm)

## Perseus Energy 240



Standalone Monitoring

**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

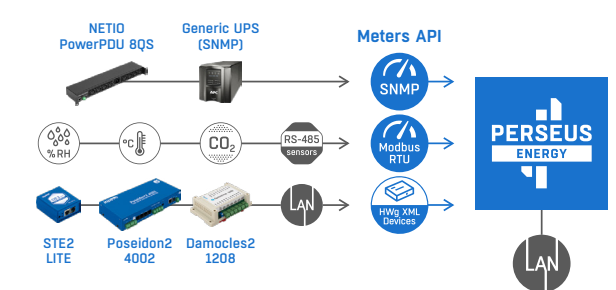
Perseus Energy 240 supports up to 100 meters with 1000 variables, connected via RS-485 (Modbus/RTU). It can read values from other network devices via generic SNMP, Modbus/TCP, MQTT and XML (for HWg devices). It can analyze metered data from RTU/LAN devices with using local alarms, conditions and actions, 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).

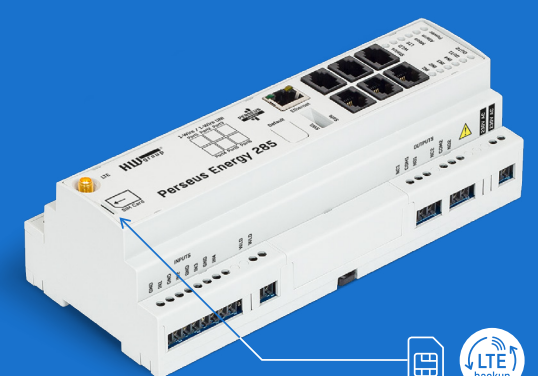
Using the RS-485 Modbus/RTU as data input (Meters API) and Modbus/TCP as output (Open API), the Perseus Energy 240 can be used as a gateway from physical Modbus/RTU (RS485) to Modbus/TCP (LAN). Measured data can be analyzed, connected to the Portal and used in any third party SCADA or SNMP based NMS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

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



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## Perseus Energy 285



Standalone Monitoring

**Perseus Energy 285**

DIN rail LAN and LTE solution for remote energy monitoring and control applications with M-Bus Master. Connect external physical sensors, detectors or Water Leak Detection sensing cable and also 3<sup>rd</sup> party meters.

- Meters API – ability to work with other HWg devices
- Support for 3<sup>rd</sup> 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 3<sup>rd</sup> party sensors
- Converts variable from one unit into another
- Support for 3<sup>rd</sup> party meters

Perseus Energy 285 combines data from external physical sensors, detectors and meters with data from other HWg devices connected via LAN. Local conditions, Lua scripting, calendar or periodic scheduler help to analyze the measured data.

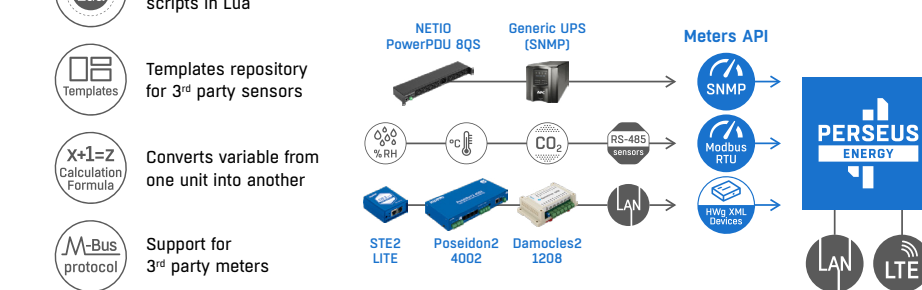
Within one DIN rail unit there are 6 1W-UNI (RJ11) ports, 4 DI (Digital Inputs) with 50 pulse counters, RS-485 (Modbus/RTU), one WLD (Water Leak Detection) zone input, an M-Bus Master input, and 2 DO (Relay Outputs).

Up to 100 external sensors with 1000 values can be connected. SMS, Call, Email or SNMP Trap alert can be sent from the Perseus device. Measured values are available via Open API (XML, Modbus/TCP, MQTT).

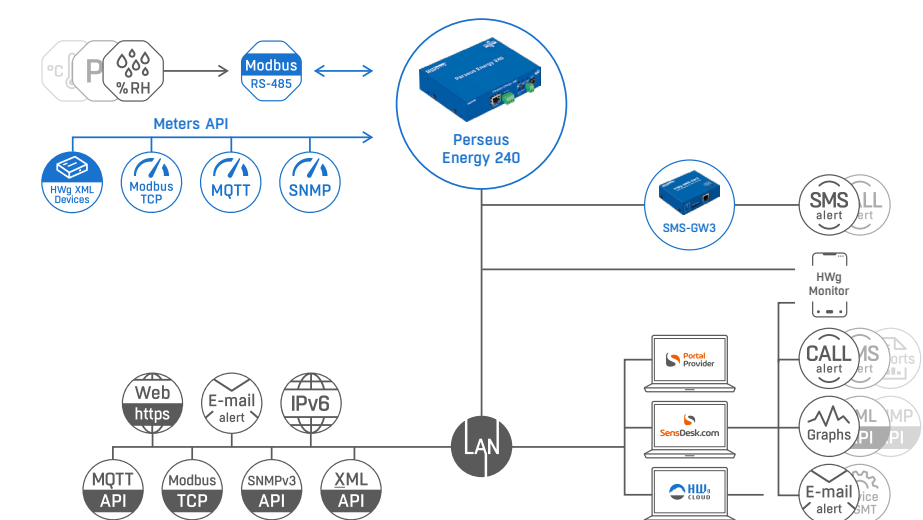
The Perseus Energy 285 unit has a built-in LTE modem that serves as an SMS gateway for Perseus itself as well as other connected HW group devices, and also provides back up connectivity to the Portal.

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

The combination of the RS-485 physical interface on the Perseus Energy 285, M-Bus Master and Modbus-RTU Meters Open API allows data to be read from 3<sup>rd</sup> party meters, UPS or air conditioning products.



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**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	
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)

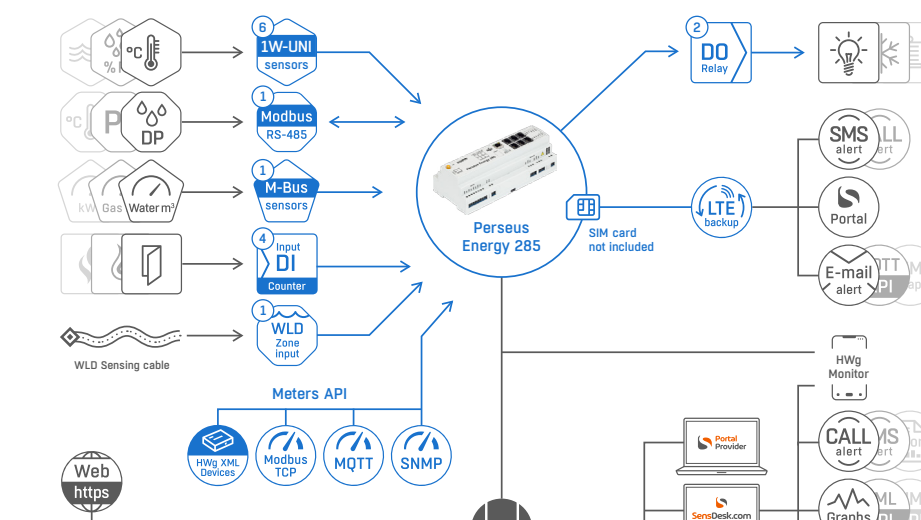
Interfaces	
Meters API	HWg XML, Modbus/TCP, MQTT, SNMP
RS-485 (Modbus/RTU)	1x 4-pin terminal block (with 12V)

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	
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

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**Typical applications**

- Remote site data concentrator of all local sensors / meters
- Remote technical room monitoring
- Boiler room equipment monitoring
- Industrial machinery monitoring
- Greenhouse / food storage / pharmaceutical warehouse monitoring
- Remote infrastructure monitoring
- Gateway for 3<sup>rd</sup> party sensors to the Portal

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)

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	3 <sup>rd</sup> party software, HWg-SDK

Technical specifications	
Ethernet	RJ45 (100BASE-T)
Power	230V
Operating temperature	-30°C to 85°C (-22°F to 149°F)
Mechanical	Plastic case, DIN rail, 65 × 90 × 213 mm
Warranty	24 months

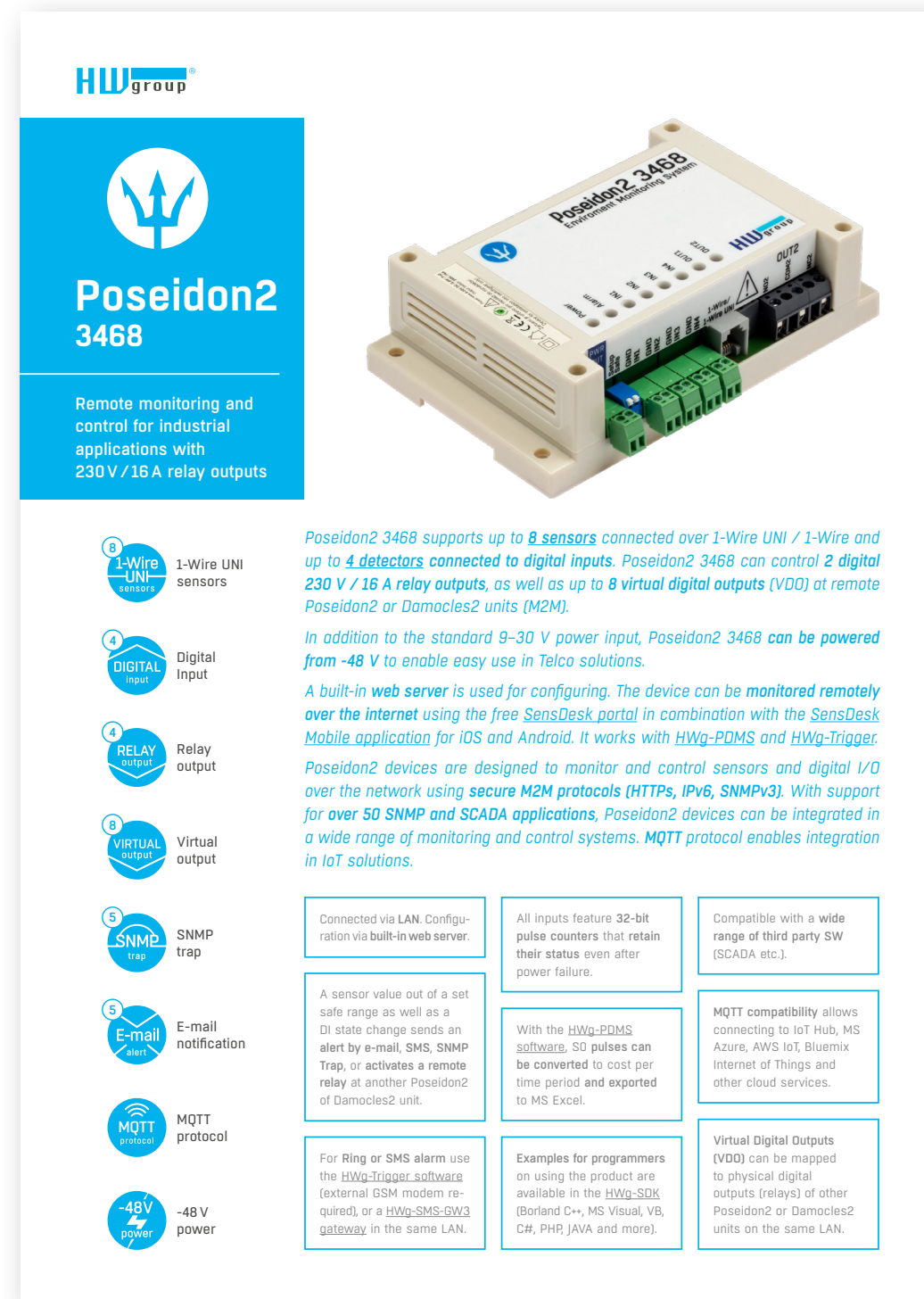
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# Flyer A4 (210 × 297 mm)

## Poseidon2 3468



**HWgroup**

**Poseidon2 3468**

Remote monitoring and control for industrial applications with 230 V / 16 A relay outputs

- 1-Wire UNI sensors
- Digital Input
- Relay output
- Virtual output
- SNMP trap
- E-mail notification
- MQTT protocol
- 48 V power

Poseidon2 3468 supports up to 8 sensors connected over 1-Wire UNI / 1-Wire and up to 4 detectors connected to digital inputs. Poseidon2 3468 can control 2 digital 230 V / 16 A relay outputs, as well as up to 8 virtual digital outputs (VDO) at remote Poseidon2 or Damocles2 units (M2M).

In addition to the standard 9-30 V power input, Poseidon2 3468 can be powered from -48 V to enable easy use in Telco solutions.

A built-in web server is used for configuring. The device can be monitored remotely over the internet using the free SensDesk portal in combination with the SensDesk Mobile application for iOS and Android. It works with HWg-PDMS and HWg-Trigger.

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure M2M protocols (HTTPs, IPv6, SNMPv3). With support for over 50 SNMP and SCADA applications, Poseidon2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.

Connected via LAN. Configuration via built-in web server.	All inputs feature 32-bit pulse counters that retain their status even after power failure.	Compatible with a wide range of third party SW (SCADA etc.).
A sensor value out of a set safe range as well as a DI state change sends an alert by e-mail, SMS, SNMP Trap, or activates a remote relay at another Poseidon2 or Damocles2 unit.	With the HWg-PDMS software, 50 pulses can be converted to cost per time period and exported to MS Excel.	MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Bluemix Internet of Things and other cloud services.
For Ring or SMS alarm use the HWg-Trigger software (external GSM modem required), or a HWg-SMS-GW3 gateway in the same LAN.	Examples for programmers on using the product are available in the HWg-SDK (Borland C++, MS Visual, VB, C#, PHP, JAVA and more).	Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Damocles2 units on the same LAN.

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**Typical application examples**

- Remote environmental monitoring in a cabinet, server room or a datacenter
- Remote I/O control and monitoring over the Ethernet
- UPS / back-up generator monitoring
- Industrial and telco applications
- HVAC monitoring
- Cooler and freezer monitoring + alarm indication
- Security and surveillance systems
- Smart buildings

**Ethernet**

LAN	RJ45 (100BASE-Tx) - 10/100 Mbps
Supported protocols	MQTT (IoT), SNMPv1, SNMPv3, HWg-PUSH, Modbus/TCP, HTTPs, IPv6, XML, netSMA

**Inputs**

Sensors	8x 1-Wire UNI / 1-Wire
Detectors	4x digital input with SD pulse counters

**Outputs**

Digital Outputs (DO)	2x Relay Output 230 V / 1A
Virtual Digital Outputs (VDO)	8x (can be mapped to another Poseidon2 or Damocles2)

**Dimensions / mass**

Dimensions	145 x 40 x 90 mm
Mass	225 g
Housing	Plastic

**Logger**

Internal memory	250,000 records
Recorded values	DI, DO
Power	9-30V DC; -48 V; PoE

**User Interface**

Built-in Web server	Device configuration and data readings
SensDesk Portal / SensDesk Mobile application	Cloud portal for data readings and alerting
HWg-Trigger	Alert redirection to SMS, pop-up messages, PC shutdown
HWg-PDMS	Logging of values, graphs, export to MS Excel
More software	Third-party software, HWg-SDK

**Poseidon2 model comparison**

Selected features	4002	3468	3268	3266	
Inputs	1-Wire UNI	16	8	8	8
	DI	12	4	4	4
	RS-485	26	-	-	-
Outputs	Relay 250 V / 1A	-	2	-	-
	Relay 50 V / 1A	4	-	2	-
	VDO	8	8	8	8
Power	9-30 V	✓	✓	✓	✓
	-48 V	-	✓	-	-
	PoE	opt.	✓	opt.	opt.
Connected	LAN	✓	✓	✓	✓
	RS-232	✓	-	-	-

**Configuration interface**

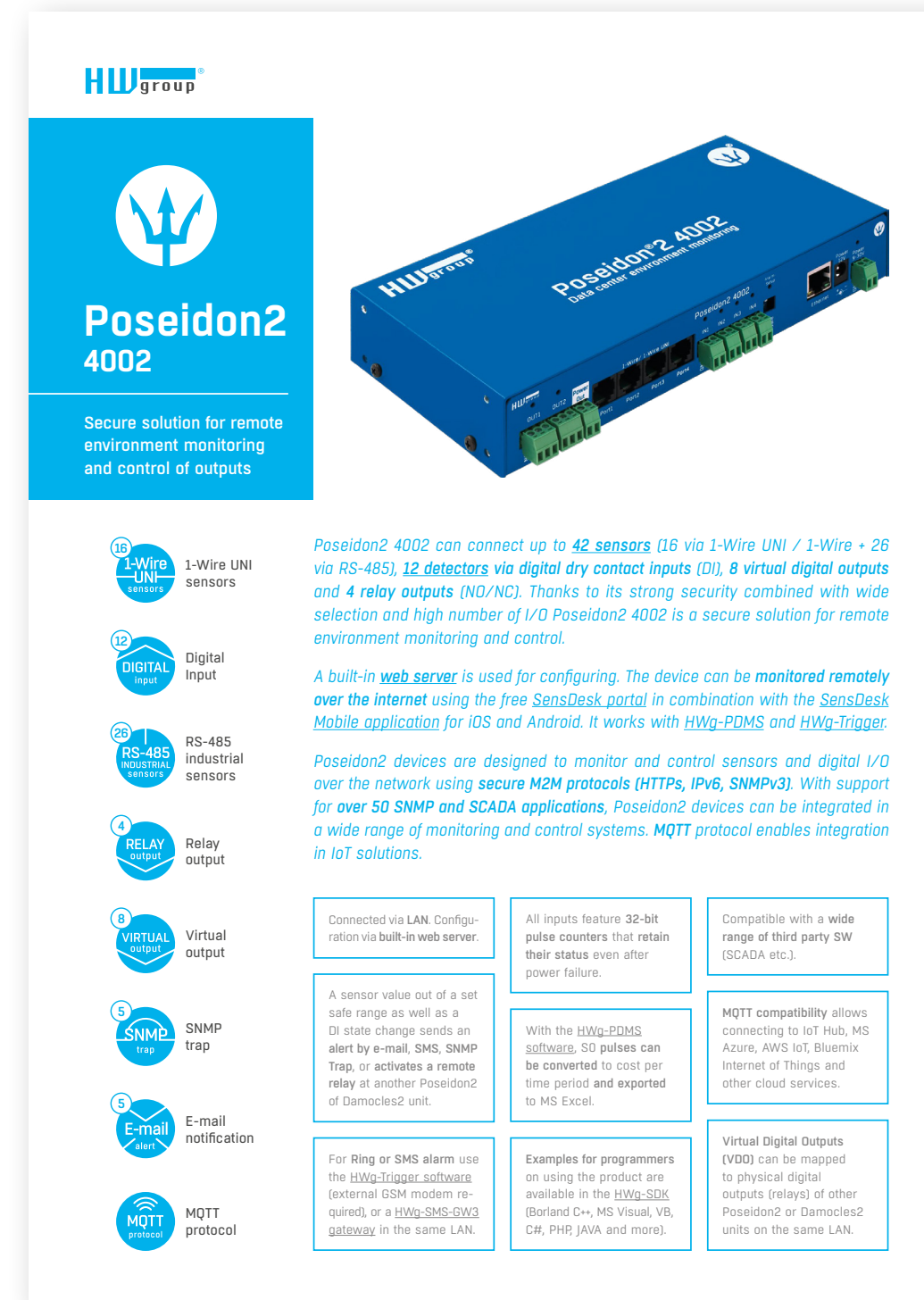
**Versions and related products**

- Poseidon2 3468 standard device
- Poseidon2 3468 TSet includes a temperature sensor and a power adaptor
- Poseidon2 4002 TSet includes two temperature sensors, door contact and a power adaptor
- Poseidon2 3268 TSet includes a temperature sensor, door contact and a power adaptor
- Poseidon2 3266 TSet includes a temperature and humidity sensor, door contact and a power adaptor
- HWg-SMS-GW3 Set SMS gateway for ring and SMS alerting for LAN. Includes antenna and a power adaptor

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## Poseidon2 4002



**HWgroup**

**Poseidon2 4002**

Secure solution for remote environment monitoring and control of outputs

- 1-Wire UNI sensors
- Digital Input
- RS-485 industrial sensors
- Relay output
- Virtual output
- SNMP trap
- E-mail notification
- MQTT protocol

Poseidon2 4002 can connect up to 42 sensors (16 via 1-Wire UNI / 1-Wire + 26 via RS-485), 12 detectors via digital dry contact inputs (DI), 8 virtual digital outputs and 4 relay outputs (NO/NC). Thanks to its strong security combined with wide selection and high number of I/O Poseidon2 4002 is a secure solution for remote environment monitoring and control.

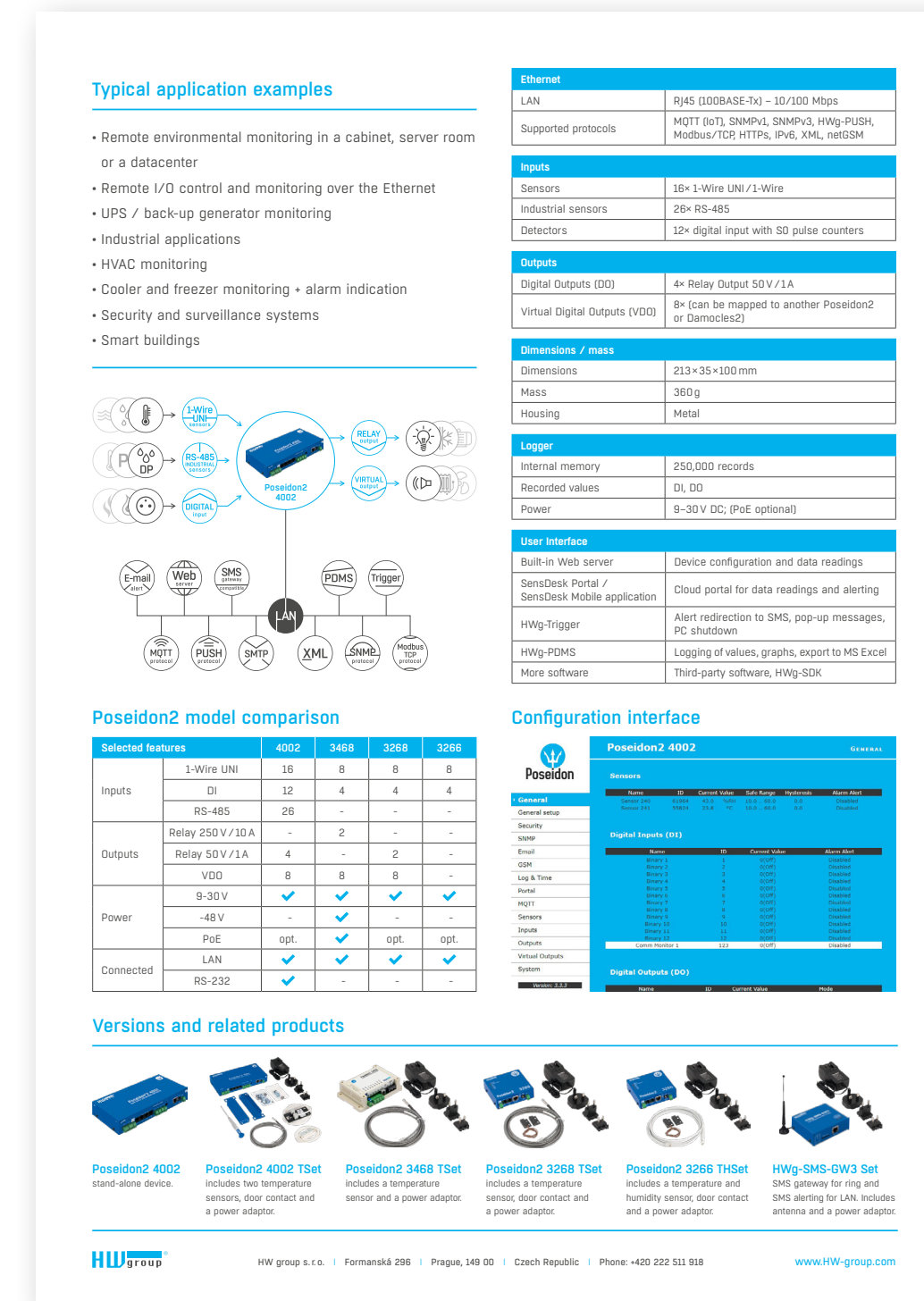
A built-in web server is used for configuring. The device can be monitored remotely over the internet using the free SensDesk portal in combination with the SensDesk Mobile application for iOS and Android. It works with HWg-PDMS and HWg-Trigger.

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure M2M protocols (HTTPs, IPv6, SNMPv3). With support for over 50 SNMP and SCADA applications, Poseidon2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.

Connected via LAN. Configuration via built-in web server.	All inputs feature 32-bit pulse counters that retain their status even after power failure.	Compatible with a wide range of third party SW (SCADA etc.).
A sensor value out of a set safe range as well as a DI state change sends an alert by e-mail, SMS, SNMP Trap, or activates a remote relay at another Poseidon2 or Damocles2 unit.	With the HWg-PDMS software, 50 pulses can be converted to cost per time period and exported to MS Excel.	MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Bluemix Internet of Things and other cloud services.
For Ring or SMS alarm use the HWg-Trigger software (external GSM modem required), or a HWg-SMS-GW3 gateway in the same LAN.	Examples for programmers on using the product are available in the HWg-SDK (Borland C++, MS Visual, VB, C#, PHP, JAVA and more).	Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Damocles2 units on the same LAN.

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**Typical application examples**

- Remote environmental monitoring in a cabinet, server room or a datacenter
- Remote I/O control and monitoring over the Ethernet
- UPS / back-up generator monitoring
- Industrial applications
- HVAC monitoring
- Cooler and freezer monitoring + alarm indication
- Security and surveillance systems
- Smart buildings

**Ethernet**

LAN	RJ45 (100BASE-Tx) - 10/100 Mbps
Supported protocols	MQTT (IoT), SNMPv1, SNMPv3, HWg-PUSH, Modbus/TCP, HTTPs, IPv6, XML, netSMA

**Inputs**

Sensors	16x 1-Wire UNI / 1-Wire
Industrial sensors	26x RS-485
Detectors	12x digital input with SD pulse counters

**Outputs**

Digital Outputs (DO)	4x Relay Output 50 V / 1A
Virtual Digital Outputs (VDO)	8x (can be mapped to another Poseidon2 or Damocles2)

**Dimensions / mass**

Dimensions	213 x 35 x 100 mm
Mass	380 g
Housing	Metal

**Logger**

Internal memory	250,000 records
Recorded values	DI, DO
Power	9-30V DC; (PoE optional)

**User Interface**

Built-in Web server	Device configuration and data readings
SensDesk Portal / SensDesk Mobile application	Cloud portal for data readings and alerting
HWg-Trigger	Alert redirection to SMS, pop-up messages, PC shutdown
HWg-PDMS	Logging of values, graphs, export to MS Excel
More software	Third-party software, HWg-SDK

**Poseidon2 model comparison**

Selected features	4002	3468	3268	3266
Inputs	1-Wire UNI	16	8	8
	DI	12	4	4
	RS-485	26	-	-
Outputs	Relay 250 V / 1A	-	2	-
	Relay 50 V / 1A	4	-	2
	VDO	8	8	8
Power	9-30 V	✓	✓	✓
	-48 V	-	✓	-
	PoE	opt.	✓	opt.
Connected	LAN	✓	✓	✓
	RS-232	✓	-	-

**Configuration interface**

**Versions and related products**

- Poseidon2 4002 stand alone device
- Poseidon2 4002 TSet includes two temperature sensors, door contact and a power adaptor
- Poseidon2 3468 TSet includes a temperature sensor and a power adaptor
- Poseidon2 3268 TSet includes a temperature sensor, door contact and a power adaptor
- Poseidon2 3266 TSet includes a temperature and humidity sensor, door contact and a power adaptor
- HWg-SMS-GW3 Set SMS gateway for ring and SMS alerting for LAN. Includes antenna and a power adaptor

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# Flyer A4 (210 × 297 mm)

## Damocles2 MINI

**Damocles2 MINI**  
Smart I/O controlled over a LAN

Damocles2 MINI provides 4 digital dry contact inputs. All digital inputs feature 50 pulse counters with a memory to connect water, gas, electricity or other meters. Damocles2 MINI controls 2 digital relay outputs (DO). A built-in web server is used for configuring. The device can be monitored remotely over the Internet using the SensDesk portal or the SensDesk Mobile app. Damocles2 MINI is a compact Ethernet I/O device with enhanced IP security.

Damocles2 devices are designed to monitor and control digital I/O over the network using secure M2M protocols (HTTPs, IPv6, SNMPv3). With support for over 50 SNMP and SCADA applications, Damocles2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.

**Basic features of Damocles2 devices:**

- Web-based configuration
- All inputs feature 32-bit pulse counters that retain their value even if the power fails
- Supports "SMS + Ring" function
- When a DI state changes, the device sends an e-mail, SMS, SNMP Trap, or activates a remote relay at another Damocles2 unit
- With the HWg-PDMS software, 50 pulses can be converted to cost per time period and exported to MS Excel
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Bluemix Internet of Things and other cloud services
- To send an alarm SMS whenever a DI state changes, use the HWg-Trigger software, or a HWg-SMS-GW gateway in the same LAN
- Examples for programmers on using the HWg-SDK (Borland C++, MS Visual, VB, C#, PHP, JAVA and more)
- Supports up to 8 virtual digital outputs (VDO) that can be mapped to physical digital outputs (relays) of other Damocles2 units on the network

**Features:**

- Digital inputs
- Relay outputs
- Pulse counter
- Web server
- E-mail notifications
- SNMP protocol
- MQTT protocol
- Modbus TCP protocol

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**Typical application examples**

- Remote equipment monitoring
- Smart buildings
- UPS monitoring
- Security and surveillance systems
- Alarm indication
- Energy consumption metering
- Connecting external inputs to SCADA systems

**Typical application examples diagram:** Shows connections for Electricity meter, Gas meter, Water meter, Motion detector, Water detector, Door contact, Gas detector, Smoke detector, Pulse counter, and Indicator.

**Technical specifications:**

- Ethernet:** Interface: RJ45 (100BASE-T4) - 10/100 Mbps; Supported protocols: Modbus/TCP, HTTP, NTR, SMTD, NetGSM, HWg-PUSH, SNMP, XML; SNMP compatibility: ver. 1, partial ver. 2, ver. 3
- Digital Inputs (DI):** Port: IL, IL2, IL3, IL4; Type: 4x digital input (supports NO/NC Dry contact); Pulse counter: 4x 32-bit
- Digital Outputs (DO):** Type: OUTL, OUT2 / relay contacts (NC-COM-NO); Max. load: Max. 2 A / 24V (2 A / 12V or 0.5 A / 48V)
- Logger:** Internal memory: 250,000 records; Recorded values: DL, DO; Power: 9-30V DC
- Supported software:** HWg-Trigger: Alert redirection to SMS, pop-up messages, PC shutdown; HWg-PDMS: Logging of values, graphs, export to MS Excel; More software: Third-party software, HWg-SDK
- Dimensions / mass:** Dimensions: 106 x 31 x 84 mm; Mass: 300 g

**Configuration interface:** Screenshot of the web-based configuration interface for Damocles2 MINI.

**Main changes in the 2<sup>nd</sup> generation:**

	1 <sup>st</sup> generation Damocles2	Damocles2 MINI
Extended IP Filter	✗	✓
SNMPv3	✗	✓
HWg-PUSH (SensDesk portal)	✗	✓
NetGSM (HWg-SMS-GW3)	✗	✓
Virtual Output (XML)	✗	✓
Pulse counter (50 pulse)	✗	✓
HTTPS	✗	✓
IPv6	✗	✓
MQTT (IoT portals)	✗	✓
Group Alarm	✓	✗

**Versions and related products:**

- Damocles2 MINI: 4x DI, 2x DO relay, stand-alone device
- Damocles2 MINI set: 4x DI, 2x DO relay, includes a power adapter
- Damocles2 1208 set: 12x DI, 8x DO OC, includes a power adapter
- Damocles2 2404 set: 24x DI, 4x DO relay, includes a power adapter
- HWg-SMS-GW3: GSM gateway for ring and SMS notification
- Back-Up UPS Lite: Backup power supply 12V, 1.3Ah

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## Damocles2 1208

**Damocles2 1208**  
Industrial I/O with enhanced IP security and OC outputs

Damocles2 1208 provides 12 digital dry contact inputs (DI). All digital inputs feature 50 pulse counters with a memory to connect water, gas, electricity or other meters. Damocles2 1208 controls 8 digital open collector outputs (DO). A built-in web server is used for configuring. The device can be monitored remotely over the Internet using the SensDesk portal or the SensDesk Mobile app. Damocles2 1208 is an Ethernet I/O device with enhanced IP security and an excellent cost per I/O pin ratio.

Damocles2 devices are designed to monitor and control digital I/O over the network using secure M2M protocols (HTTPs, IPv6, SNMPv3). With support for over 50 SNMP and SCADA applications, Damocles2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.

**Basic features of Damocles2 devices:**

- Web-based configuration
- All inputs feature 32-bit pulse counters that retain their value even if the power fails
- Supports "SMS + Ring" function
- When a DI state changes, the device sends an e-mail, SMS, SNMP Trap, or activates a remote relay at another Damocles2 unit
- With the HWg-PDMS software, 50 pulses can be converted to cost per time period and exported to MS Excel
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Bluemix Internet of Things and other cloud services
- To send an alarm SMS whenever a DI state changes, use the HWg-Trigger software, or a HWg-SMS-GW gateway in the same LAN
- Examples for programmers on using the HWg-SDK (Borland C++, MS Visual, VB, C#, PHP, JAVA and more)
- Supports up to 8 virtual digital outputs (VDO) that can be mapped to physical digital outputs (relays) of other Damocles2 units on the network

**Features:**

- Digital inputs
- Open collector outputs
- Pulse counter
- Web server
- E-mail notifications
- SNMP protocol
- MQTT protocol
- Modbus TCP protocol

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**Typical application examples**

- Remote equipment monitoring
- Smart buildings
- UPS monitoring
- Security and surveillance systems
- Alarm indication
- Energy consumption metering
- Connecting external inputs to SCADA systems

**Typical application examples diagram:** Shows connections for Electricity meter, Gas meter, Water meter, Motion detector, Water detector, Door contact, Gas detector, Smoke detector, Pulse counter, and Indicator.

**Technical specifications:**

- Ethernet:** Interface: RJ45 (100BASE-T4) - 10/100 Mbps; Supported protocols: Modbus/TCP, HTTP, NTR, SMTD, NetGSM, HWg-PUSH, SNMP, XML; SNMP compatibility: ver. 1, partial ver. 2, ver. 3
- Digital inputs (DI):** Port: IL - IL2; Type: 12x digital input (supports NO/NC Dry contact); Pulse counter: 12x 32-bit
- Digital Outputs (DO):** Type: 4x open collector; Max. load: 50V, max. 500 mA / output, max. 1,500 mA all 8 outputs
- Logger:** Internal memory: 250,000 records; Recorded values: DL, DO; Power: 9-30V DC
- Supported software:** HWg-Trigger: Alert redirection to SMS, pop-up messages, PC shutdown; HWg-PDMS: Logging of values, graphs, export to MS Excel; More software: Third-party software, HWg-SDK
- Dimensions / mass:** Dimensions: 145 x 40 x 90 mm; Mass: 222 g

**Configuration interface:** Screenshot of the web-based configuration interface for Damocles2 1208.

**Main changes in the 2<sup>nd</sup> generation:**

	1 <sup>st</sup> generation Damocles2	Damocles2 1208
Extended IP Filter	✗	✓
SNMPv3	✗	✓
HWg-PUSH (SensDesk portal)	✗	✓
NetGSM (HWg-SMS-GW3)	✗	✓
Virtual Output (XML)	✗	✓
Pulse counter (50 pulse)	✗	✓
HTTPS	✗	✓
IPv6	✗	✓
MQTT (IoT portals)	✗	✓
Group Alarm	✓	✗

**Versions and related products:**


- Damocles2 1208: 12x DI, 8x DO OC, stand-alone device
- Damocles2 1208 set: 12x DI, 8x DO OC, includes a power adapter
- Damocles2 2404 set: 24x DI, 4x DO relay, includes a power adapter
- Damocles2 MINI set: 4x DI, 2x DO relay, includes a power adapter
- HWg-SMS-GW3: GSM gateway for ring and SMS notification
- Back-Up UPS Lite: Backup power supply 12V, 1.3Ah

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# Flyer A4 (210 × 297 mm)


## STE2 R2



Standalone Monitoring


### STE2 R2


Reliable environment monitoring for remote locations. Email alerts, SNMP monitoring or cloud service available.





**You can connect:**

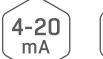
**Up to 5 sensors values**


  
 Temperature (Pt1000)

  
 Relative Humidity


  
 Flood detector


  
 Carbon dioxide


  
 Analog input


  
 Voltage sensor


**2x DI (Digital Inputs)**


  
 Smoke detector

  
 Power presence








  
 Door contact

  
 Motion detector

  
 Water spot detector

  
 Vibration detector

Portal based features

STE2 R2 can be connected to any SensDesk Technology-based portal to be monitored and managed. Portal centralizes device management, graphs, and alerts by email, SMS or voice calls. PDF reports are also available.

- HWg-cloud.com offers a limited service for free
- SensDesk.com is a paid service
- Portals from local Portal providers are also available

**Technical specifications**

External power	5V Jack Ø 3.5x1.35mm, PoE RJ-45
Temperature range	Operating: -10°C - 60°C
Dimensions / weight	98x68x33 (WxHxD) / 91g
Connectivity	LAN, WIFI

**External sensors and detectors**

Sensor ports	2 RJ11 ports, 5 sensor values in total
Compatible sensors	RJ11 sensors from HW group (1W / 1W-UNI)
Sensors you can monitor	Temperature, Relative Humidity, Voltage, AC/DC Current, Flood detection, CO <sub>2</sub> , VoC, Light intensity & many more...
Digital Inputs	2x Dry contact input


**Communication**


M2M Open API	SNMP v1/v2, XML, HWg-Push
Alarms	Email, HWg-Push, SMS & Voice Call (with assistance of SMS-GW3 LTE)

**Software / Services**


SensDesk Technology portal	Online remote monitoring service. Graphs, alerts, device management.
HWg-cloud.com	Free of charge portal service
Mobile App	HWg Monitor
Other software	3 <sup>rd</sup> party software, HWg-SDK

Front page






Standalone Monitoring




**Typical applications**

- Remote Server environment monitoring & alerts
- Remote environment monitoring in IT
- Remote air conditioning control (A/C unit cooling failure alert)
- Food / Drug storage (control of storage conditions, creation of HACCP logs using application software)
- Monitoring of temperature, humidity, electric current, CO<sub>2</sub>
- Detection of water leakage (spot / sensing cable)


**Related products**



**SMS-GW3 LTE**  
Central text message (SMS) gateway that HWg devices and applications in the same network can use to dial numbers or send SMS alerts.










**Temp 1Wire Pt100**  
High precision temperature sensor -50°C to +200°C - ideal temperature sensor for storages, food processing, freezers, medical and laboratory environments, agriculture and industrial applications.



**Temp 1Wire Flat**  
Temperature probe -30°C to +60°C for use in pharmaceutical or food industry (refrigerators). A flat connection cable can be routed under the door seal.

Portal based features

STE2 PLUS can be connected to any SensDesk Technology-based portal to be monitored and managed. Portal centralizes device management, graphs, and alerts by email, SMS or voice calls. PDF reports are also available.

- HWg-cloud.com offers a limited service for free
- SensDesk.com is a paid service
- Portals from local Portal providers are also available

**Technical specifications**

External power	5V Jack Ø 3.5x1.35mm, PoE RJ-45
Temperature range	Operating: -10°C - 60°C
Dimensions / weight	98x68x33 (WxHxD) / 91g
Connectivity	LAN, WIFI

**External sensors and detectors**

Sensor ports	2 RJ11 ports, 5 sensor values in total
Compatible sensors	RJ11 sensors from HW group (1W / 1W-UNI)
Sensors you can monitor	Temperature, Relative Humidity, Voltage, AC/DC Current, Flood detection, CO <sub>2</sub> , VoC, Light intensity & many more...
Digital Inputs	2x Dry contact input

**Communication**


M2M Open API	SNMP v1/v2, XML, HWg-Push
Alarms	Email, HWg-Push, SMS & Voice Call (with assistance of SMS-GW3 LTE)

**Software / Services**

SensDesk Technology portal	Online remote monitoring service. Graphs, alerts, device management.
HWg-cloud.com	Free of charge portal service
Mobile App	HWg Monitor
Other software	3 <sup>rd</sup> party software, HWg-SDK

Back page


## STE2 PLUS



Standalone Monitoring


### STE2 PLUS


Professional environment monitoring for 15 sensor values. Professional product with SNMP v3, SNMP Traps or IPv6.





**You can connect:**

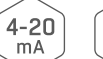
**Up to 15 sensors values**


  
 Temperature (Pt1000)

  
 Relative Humidity


  
 Flood detector


  
 Carbon dioxide


  
 Analog input


  
 Voltage sensor


**2x DI (Digital Inputs)**


  
 Smoke detector

  
 Power presence








  
 Door contact

  
 Motion detector

  
 Water spot detector

  
 Vibration detector

Portal based features

STE2 PLUS can be connected to any SensDesk Technology-based portal to be monitored and managed. Portal centralizes device management, graphs, and alerts by email, SMS or voice calls. PDF reports are also available.

- HWg-cloud.com offers a limited service for free
- SensDesk.com is a paid service
- Portals from local Portal providers are also available

**Technical specifications**

External power	5V Jack Ø 3.5x1.35mm, PoE RJ-45
Temperature range	Operating: -10°C - 60°C
Dimensions / weight	98x68x33 (WxHxD) / 91g
Connectivity	LAN, WIFI

**External sensors and detectors**

Sensor ports	2 RJ11 ports, 15 sensor values in total
Compatible sensors	RJ11 sensors from HW group (1W / 1W-UNI)
Sensors you can monitor	Temperature, Relative Humidity, Voltage, AC/DC Current, Flood detection, CO <sub>2</sub> , VoC, Light intensity & many more...
Digital Inputs	2x Dry contact input


**Communication**

M2M Open API	SNMP v1/v2, SNMP v3, XML, HWg-Push
Alarms	Email, SNMP Traps, HWg-Push, SMS & Voice Call (with assistance of SMS-GW3 LTE)
Features	IPv6, VDD (Virtual Digital Outputs)


**Software / Services**

SensDesk Technology portal	Online remote monitoring service. Graphs, alerts, device management.
HWg-cloud.com	Free of charge portal service
Mobile App	HWg Monitor
Other software	3 <sup>rd</sup> party software, HWg-SDK

Front page




Standalone Monitoring




**Typical applications**

- Remote technical rooms monitoring
- Drug storage with reports from Portal
- Food storage (control of storage conditions, creation of HACCP logs using application software)
- Building environment monitoring
- Remote monitoring of refrigerator or freezer (alert when refrigerator fails, logging of operating and storage conditions)
- Detection of water flooding (spot / sensing cable)
- Heating and A/C optimization (cost savings)


**Related products**



**HTemp-1Wire-Box2**  
Wall mount Temperature and Relative Humidity sensor. Easy to daisy-chain.










**Sensor CO2 1W-UNI**  
Combined Temperature (-0 to +50 °C), Relative Humidity (RH 0-95%) and CO<sub>2</sub> (300-40000 ppm) sensor in one box.



**SMS-GW3 LTE**  
Central text message (SMS) gateway that HWg devices and applications in the same network can use to dial numbers or send SMS alerts.

Portal based features

STE2 PLUS can be connected to any SensDesk Technology-based portal to be monitored and managed. Portal centralizes device management, graphs, and alerts by email, SMS or voice calls. PDF reports are also available.

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- Portals from local Portal providers are also available

**Technical specifications**

External power	5V Jack Ø 3.5x1.35mm, PoE RJ-45
Temperature range	Operating: -10°C - 60°C
Dimensions / weight	98x68x33 (WxHxD) / 91g
Connectivity	LAN, WIFI

**External sensors and detectors**

Sensor ports	2 RJ11 ports, 15 sensor values in total
Compatible sensors	RJ11 sensors from HW group (1W / 1W-UNI)
Sensors you can monitor	Temperature, Relative Humidity, Voltage, AC/DC Current, Flood detection, CO <sub>2</sub> , VoC, Light intensity & many more...
Digital Inputs	2x Dry contact input

**Communication**

M2M Open API	SNMP v1/v2, SNMP v3, XML, HWg-Push
Alarms	Email, SNMP Traps, HWg-Push, SMS & Voice Call (with assistance of SMS-GW3 LTE)
Features	IPv6, VDD (Virtual Digital Outputs)

**Software / Services**

SensDesk Technology portal	Online remote monitoring service. Graphs, alerts, device management.
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Other software	3 <sup>rd</sup> party software, HWg-SDK

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# Flyer A4 (210 × 297 mm)

## WLD2



Standalone Monitoring

### WLD2

Quad water leak detector with WiFi and Ethernet. Support for WWV, SNMP and PoE.








WLD2 is a WiFi/Ethernet water leak detector with support for WWV, SNMP, e-mails and PoE. It supports up to 4 sensing cables. Alarms are triggered by even the smallest volumes of liquids, such as condensation from A/C pipes or water leaks in general. You will receive alarms before costly damages occur. In addition to flooding, the device also detects disconnected or damaged sensing cables for increased reliability.

Each detection zone can consist of up to 85m of sensing cable + up to 100m of connecting cable.

Flooding can be also indicated by switching a remote output (e.g. a relay) over the network (with Perseus, Poseidon2 or Damocles2 units), independently for each sensing cable.

Thanks to WiFi connectivity, the WLD2 water leak detector can be installed in remote places. In case of flooding it can send an alert via e-mail, SNMP trap or the SensDesk cloud. With an external SMS gateway by HW group it can send a text message or dial a phone number.

Device features:

-  External SMS gateway supported
-  Virtual output
-  E-mail notification
-  Web server
-  Portal supported
-  4 destinations

Portal based features










This device can be connected to any SensDesk Technology-based portal to be monitored and managed. Portal centralizes device management, graphs, and alerts by e-mail, SMS or voice calls. PDF reports are also available.

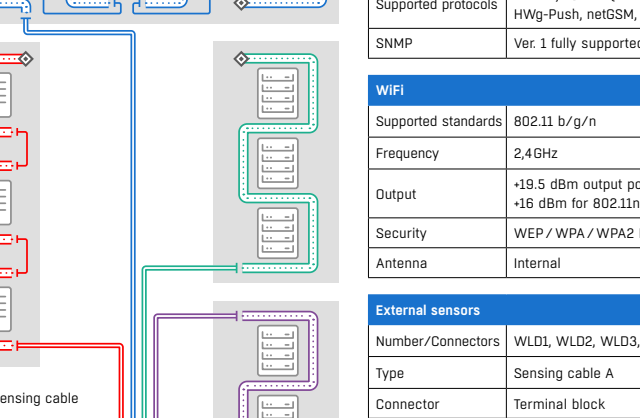
- HWg-cloud.com offers a limited service for free
- SensDesk.com is a paid service
- Portals from local Portal providers are also available

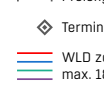
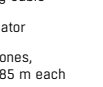




Standalone Monitoring

### WLD2

Quad water leak detector with WiFi and Ethernet. Support for WWV, SNMP and PoE.



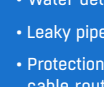



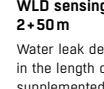
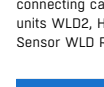
WLD2 is a WiFi/Ethernet water leak detector with support for WWV, SNMP, e-mails and PoE. It supports up to 4 sensing cables. Alarms are triggered by even the smallest volumes of liquids, such as condensation from A/C pipes or water leaks in general. You will receive alarms before costly damages occur. In addition to flooding, the device also detects disconnected or damaged sensing cables for increased reliability.

Each detection zone can consist of up to 85m of sensing cable + up to 100m of connecting cable.








Flooding can be also indicated by switching a remote output (e.g. a relay) over the network (with Perseus, Poseidon2 or Damocles2 units), independently for each sensing cable.

Thanks to WiFi connectivity, the WLD2 water leak detector can be installed in remote places. In case of flooding it can send an alert via e-mail, SNMP trap or the SensDesk cloud. With an external SMS gateway by HW group it can send a text message or dial a phone number.

Device features:

-  External SMS gateway supported
-  Virtual output
-  E-mail notification
-  Web server
-  Portal supported
-  4 destinations

Portal based features

This device can be connected to any SensDesk Technology-based portal to be monitored and managed. Portal centralizes device management, graphs, and alerts by e-mail, SMS or voice calls. PDF reports are also available.

- HWg-cloud.com offers a limited service for free
- SensDesk.com is a paid service
- Portals from local Portal providers are also available

Typical applications

- Water detection under raised floors
- Leaky pipe detection (cable wrapped along the pipe)
- Protection against floods from skylights – sensing cable routed along the walls
- Detection of water leaks in drip trays
- Detection of water leaks under air-conditioning outlets

Related products



**WLD sensing cable A – 2x50m**  
Water leak detection cable in the length of 50m, supplemented by 2 meters of connecting cable. For use with units WLD2, HWg-WLD and Sensor WLD Relay 1W-UNI.



**WLD sensing cable A – 2x10m**  
Water leak detection cable in the length of 10m, supplemented by 2 meters of connecting cable. For use with units WLD2, HWg-WLD and Sensor WLD Relay 1W-UNI.



**WLD A prolong cable 5m**  
Prolong non-sensitive cable 5m for WLD type A. Can be extended to up to 100m in total.



**SMS-GW3 LTE**  
SMS-GW3 LTE is a LAN gateway for sending alarm SMS from HW group devices.

Ethernet

Interface	RJ45 (10/100BASE-T)
Supported protocols	IP: ARP, TCP/IP (HTTP, HTTPS, SMTP), HWg-Push, netGSM, TLS, UDP/IP (SNMP)
SNMP	Ver. 1 fully supported, some parts ver. 2

WiFi

Supported standards	802.11 b/g/n
Frequency	2.4GHz
Output	+19.5 dBm output power in 802.11b mode +18 dBm for 802.11n
Security	WEP / WPA / WPA2 PSK / WPA2 TSK / WPS
Antenna	Internal

External sensors

Number/Connectors	WLD1, WLD2, WLD3, WLD4/terminal blocks
Type	Sensing cable A
Connector	Terminal block
Sensor states	0 = OK, 1 = Flooded, 2 = Cable disconnected
Sensing cable length	Max. 85m
Cable extension	May be extended by at most 100m, AWG 24

Power supply

Power voltage	5V / 250mA
Connector	Jack Ø3.5x1.35/10mm
PoE (Power over Ethernet)	RJ45 - IEEE 802.3af Class 0

Other parameters


Operating temperature	-10 to 60°C (device operating temperatures, May not correspond to sensor range)
Dimensions/weight	85x80x30 mm / 500 g
Emmag. radiation	CE / FCC Part 15, Class B
Emmag. compatibility	EN 55022, EN 55024, EN 61000

WLD sensing cable A



WLD sensing cable A is a long-term robust solution. It can be twisted, bent, or gripped without losing functionality. The cable is made of high-quality materials and is designed for long-term use in various environments.


## Sensor WLD Relay 1W-UNI






Standalone Monitoring

### Sensor WLD Relay 1W-UNI

External sensor for connecting WLD water leak sensing cable type A. One WLD sensing zone can be connected to 1W-UNI sensor (RJ11) or to any DI input via this WLD Relay device.



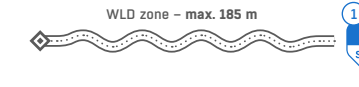
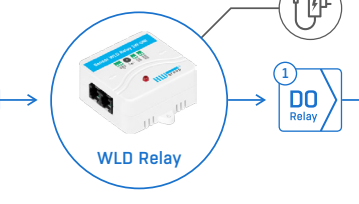

Water Leak Detection zone input

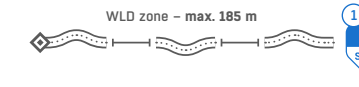
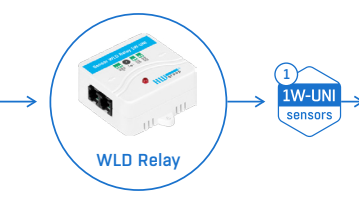

Digital Output relay

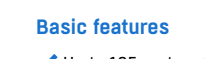
1-Wire UNI sensors

Sensor WLD Relay 1W-UNI can be used as a standalone WLD sensor (power + relay output), indicating flooded state or disconnected cable, or as a 1W-UNI sensor connected to any STE2 family, Poseidon2, Ares, Perseus or other HWg device.

One zone of external WLD sensing cable type A, with max. length of 185 meters, detects as little as a few drops of a liquid along the entire length of WLD sensing cable. Liquid detection is indicated on the 1W-UNI sensor or by switching of the relay NO/NC output (external power 12V is required). By providing an early detection and warning, Sensor WLD Relay 1W-UNI can prevent damages and avoid the associated costs even at places without Ethernet connectivity. The WLD cable detects even a small volume of water, ethylene glycol or other conductive liquid.

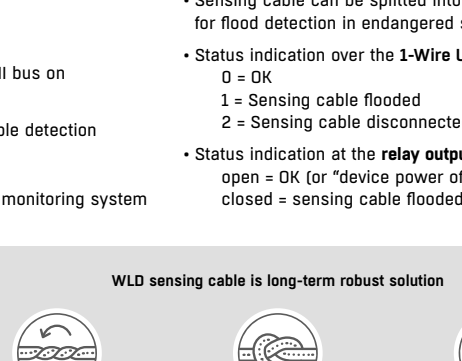







Standalone Monitoring


### Sensor WLD Relay 1W-UNI

External sensor for connecting WLD water leak sensing cable type A. One WLD sensing zone can be connected to 1W-UNI sensor (RJ11) or to any DI input via this WLD Relay device.






Twist




WLD sensing cable Type A can be twisted as any other electrical cable.

Bend



WLD sensing cable Type A is not limited by any bending radius. Sensing cable can be knotted and still works properly.

Grip



Liquid detection functionality is not limited by point pressure within a reasonable range.

WLD sensing cable A is long-term robust solution.

Basic features

- ✓ Up to 185 meters for WLD zone with sensing cable A
- ✓ Simple installation
- ✓ Relay output signaling
- ✓ Can be connected to 1-Wire UNI bus on HWg device
- ✓ Disconnected WLD sensing cable detection
- ✓ Clips for fixing detection cable
- ✓ Can be connected to your own monitoring system


Specifications

- The sensing cable can be extended with a two-wire cable (max. 185m).
- Sensing cable can be splitted into several segments for flood detection in endangered spots only.
- Status indication over the **1-Wire UNI bus**:  
0 = OK  
1 = Sensing cable flooded  
2 = Sensing cable disconnected
- Status indication at the **relay output**:  
open = OK (or "device power off")  
closed = sensing cable flooded or disconnected


Typical applications

- Water leak detector for security systems and under raised floors
- Leaky pipe detection (cable wrapped along the pipe)
- Protection against floods from roof lights (sensing cable routed along the walls)
- Detection of water leaks in drip trays and under air-conditioning


Related products




**WLD sensing cable A – 2x50m**  
Water leak detection cable in the length of 50m, supplemented by 2 meters of connecting cable. For use with units WLD2, HWg-WLD and Sensor WLD Relay 1W-UNI.



**WLD sensing cable A – 2x10m**  
Water leak detection cable in the length of 10m, supplemented by 2 meters of connecting cable. For use with units WLD2, HWg-WLD and Sensor WLD Relay 1W-UNI.



**WLD A prolong cable 5m**  
Prolong non-sensitive cable 5m for WLD type A. Can be extended to up to 100m in total.



**WLD connection cable A**  
Connection cable for connecting WLD device with WLD sensing cable.

Input (sensing cable)

Max. zone length	185m
------------------	------

Powering

Jack	9-15V / 20mA
Terminal block	9-15V / 20mA
RJ-11 (from 1-Wire)	5V / 40mA
Output	50V / 1000mA

Standalone Monitoring

www.HW-group.com

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# Flyer A4 (210 × 297 mm)

## NB-2x1Wire



**IoT Monitoring**

### NB-2x1Wire

NB-IoT remote metering device with external sensors and internal battery. Portal required.

IoT Monitoring device, cloud enabled by default, no expert on the site needed.



NB-2x1Wire is remote metering IoT device with included sim card, connected to NB-IoT (Narrow Band) wireless network provided by your mobile operator.

You can connect and power from internal battery up to 4 external "1-Wire UNI" sensors (Temperature, Humidity, 4-20 mA, WLD Water Leak Detection, Light Sensor, Voltage, ...).

IoT device have to be connected to the SensDesk technology based portal. The HWg-cloud.com portal is free service, there are also listed other compatible portals.

Portal centralizes device management, remote FW upgrades, graphs, alerts by email, SMS or calls. PDF reports are also available.

**Portal based services**









**SensDesk Technology**

- HWg-cloud.com for free
- SensDesk.com as paid service
- Several Portal providers available

**SIM card included**

Subscribed version of this device is delivered with NB-IoT SIM card included. It provides 3 years of connectivity (Vodafone NB-IoT)

**4 sensor values**

Connect external sensors. Some of them can require external power. One sensor probe can display several sensor values.

**Internal battery**

Can power device 6 temperature sensor up to 3 years of metering with communication once per 10 hours.

**Technical specifications**

External power	5VDC/120mA / Jack Ø 3.5 × 1.35 / 10mm
Internal battery	Lithium 3V model CR123A (included) Non-Rechargeable
Battery lifetime	Up to 3 years with 1 temperature sensor only / 20 °C
Operating temperature	-10 to +60 °C (for device)
Dimensions / weight	67×78×33mm / 250g
Electromagnetic radiation / EMC	CE/FCC Part 15, Class B / EN 55022, EN 55024, EN 61000

**External sensors**

Sensor ports	2× RJ11 (2 ports, 4 sensors values in total)
Compatible sensors	1-Wire / 1-Wire UNI sensors from HW group only
Sensors distance	Max. 60m per each one port
You can monitor	Temperature, Relative Humidity, Voltage, AC / DC Current, Flood detection, CO <sub>2</sub> , VoC, Light intensity & many more...

**NB-IoT connectivity**

Supported bands	B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B26*/B28/B66
Carrier(s)	Vodafone (global) (HWg sim card) Other operators on request
*Subscribed version	SIM card with Vodafone NB-IoT 3 years connectivity included
Device certifications	GCF (Global), CE (Europe), FCC/PTCRB (North America), IC, KC, NCC, JATE/TELEC, RCM, NBTC, IMDA
Radio Output power	23dBm ±2dB
Antenna / Sensitivity	External, SMA / 129dBm
Supported protocols	IP: UDP/IP (COAP)
Compatible portals	Any portal based on SensDesk technology

**Typical applications**

- Remote building environment monitoring
- Air conditioning failure detection
- Temperature monitoring in refrigerators
- Food / Medical storage
- Agricultural premises (greenhouses, granaries, etc.)
- Diesel generators / remote batteries monitoring


**Related products**

- HTemp-1-Wire Outdoor**  
Temperature and humidity sensor for outdoor use.
- Sensor CO2 1W-UNI**  
Combined Temperature (-10 to +50 °C), Relative Humidity (RH 0-95%) and CO<sub>2</sub> (300-40000ppm) sensor in one box. RJ11 interface (1-Wire UNI bus).
- UPS 12V and 5V**  
The "UPS 12V and 5V" is a backup power source for devices with 12V as well as 5V DC power supply which can be powered by the UPS simultaneously.
- Expander 4xDI 1W-UNI**  
Expansion module for connection of 4 dry contact inputs to Ares and Poseidon units. Connect another button, door contact, smoke detector etc. to the 1-Wire UNI bus (RJ11).
- Temp 1Wire PH1000**  
High precision temperature sensor -50 °C to 200 °C - Ideal temperature sensor for storages, food processing, freezers, medical and laboratory environments, agriculture and industrial applications.

**IoT Monitoring**

[www.HW-group.com](http://www.HW-group.com)

Front page




**IoT Monitoring**

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NB-IoT remote metering device with external sensors and internal battery. Portal required.

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You can connect and power from internal battery up to 4 external "1-Wire UNI" sensors (Temperature, Humidity, 4-20 mA, WLD Water Leak Detection, Light Sensor, Voltage, ...).

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**SIM card included**

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**4 sensor values**

Connect external sensors. Some of them can require external power. One sensor probe can display several sensor values.

**Internal battery**

Can power device 6 temperature sensor up to 3 years of metering with communication once per 10 hours.

**Technical specifications**

External power	5VDC/120mA / Jack Ø 3.5 × 1.35 / 10mm
Internal battery	Lithium 3V model CR123A (included) Non-Rechargeable
Battery lifetime	Up to 3 years with 1 temperature sensor only / 20 °C
Operating temperature	-10 to +60 °C (for device)
Dimensions / weight	67×78×33mm / 250g
Electromagnetic radiation / EMC	CE/FCC Part 15, Class B / EN 55022, EN 55024, EN 61000

**External sensors**

Sensor ports	2× RJ11 (2 ports, 4 sensors values in total)
Compatible sensors	1-Wire / 1-Wire UNI sensors from HW group only
Sensors distance	Max. 60m per each one port
You can monitor	Temperature, Relative Humidity, Voltage, AC / DC Current, Flood detection, CO <sub>2</sub> , VoC, Light intensity & many more...

**NB-IoT connectivity**

Supported bands	B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B26*/B28/B66
Carrier(s)	Vodafone (global) (HWg sim card) Other operators on request
*Subscribed version	SIM card with Vodafone NB-IoT 3 years connectivity included
Device certifications	GCF (Global), CE (Europe), FCC/PTCRB (North America), IC, KC, NCC, JATE/TELEC, RCM, NBTC, IMDA
Radio Output power	23dBm ±2dB
Antenna / Sensitivity	External, SMA / 129dBm
Supported protocols	IP: UDP/IP (COAP)
Compatible portals	Any portal based on SensDesk technology

**Typical applications**

- Remote building environment monitoring
- Air conditioning failure detection
- Temperature monitoring in refrigerators
- Food / Medical storage
- Agricultural premises (greenhouses, granaries, etc.)
- Diesel generators / remote batteries monitoring

**Related products**

- HTemp-1-Wire Outdoor**  
Temperature and humidity sensor for outdoor use.
- Sensor CO2 1W-UNI**  
Combined Temperature (-10 to +50 °C), Relative Humidity (RH 0-95%) and CO<sub>2</sub> (300-40000ppm) sensor in one box. RJ11 interface (1-Wire UNI bus).
- UPS 12V and 5V**  
The "UPS 12V and 5V" is a backup power source for devices with 12V as well as 5V DC power supply which can be powered by the UPS simultaneously.
- Expander 4xDI 1W-UNI**  
Expansion module for connection of 4 dry contact inputs to Ares and Poseidon units. Connect another button, door contact, smoke detector etc. to the 1-Wire UNI bus (RJ11).
- Temp 1Wire PH1000**  
High precision temperature sensor -50 °C to 200 °C - Ideal temperature sensor for storages, food processing, freezers, medical and laboratory environments, agriculture and industrial applications.

**IoT Monitoring**

[www.HW-group.com](http://www.HW-group.com)

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## NB-2xIn



**IoT Monitoring**

### NB-2xIn

Digital Inputs to the Portal

The NB-2xIn connects 2x DI (Digital Input) to the Portal over NB-IoT cellular network.

Each DI reading 0/1 state (Dry Contact) and Portal can analyze that Pulse outputs SO for monitoring water or gas consumption can be also connected.



NB-2xIn is IoT Monitoring device so Portal service is required. Paid portal service from several providers available (any SensDesk Technology portal). Portal centralizes device management, remote FW upgrades, graphs, and Alerts by email, SMS, or Voice-calls. Open API and PDF reports are also available. The device is connected to the portal via NB-IoT (NarrowBand IoT) cellular network.

**Portal based services**









**SIM card included**

Subscribed version of this device is delivered with NB-IoT SIM card included. It provides 3 years of connectivity (3<sup>rd</sup> party SIM card for NB-IoT).

**Internal battery**

The NB-2xIn itself is powered by an internal battery or from an external power supply.

**SensDesk Technology**

- The NB-2xIn device and the portal are products of the HW group and are seamlessly integrated.
- Portal will alert you by email (SMS, Voice Call) if DI is switched On/Off.
- Portal will alert you if device is disconnected (not available).
- Alarm state (0 / 1) can be defined for each DI.
- Free cloud available (HWg-cloud.com) with device management.
- HWg Monitor mobile App can show you all DI states in your portal account.
- SMS, Voice call alerts, or graphs & PDF reports can be used with paid portal services.

**Technical specifications**

External power	5VDC/120mA / Jack Ø 3.5 × 1.35 / 10mm
Internal battery	Lithium 3V model CR123A (included) Non-Rechargeable
Battery lifetime	Up to 3 years with 1 temperature sensor only / 20 °C
Operating temperature	-10 to +60 °C (for device)
Dimensions / weight	67×78×33mm / 250g
Electromagnetic radiation / EMC	CE/FCC Part 15, Class B / EN 55022, EN 55024, EN 61000

**External sensors**

Sensor ports	2× RJ11 (2 ports, 4 sensors values in total)
Compatible sensors	1-Wire / 1-Wire UNI sensors from HW group only
Sensors distance	Max. 60m per each one port
You can monitor	Temperature, Relative Humidity, Voltage, AC / DC Current, Flood detection, CO <sub>2</sub> , VoC, Light intensity & many more...

**NB-IoT connectivity**

Supported bands	B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B26*/B28/B66
Carrier(s)	Vodafone (global) (HWg sim card) Other operators on request
*Subscribed version	SIM card with Vodafone NB-IoT 3 years connectivity included
Device certifications	GCF (Global), CE (Europe), FCC/PTCRB (North America), IC, KC, NCC, JATE/TELEC, RCM, NBTC, IMDA
Radio Output power	23dBm ±2dB
Antenna / Sensitivity	External, SMA / 129dBm
Supported protocols	IP: UDP/IP (COAP)
Compatible portals	Any portal based on SensDesk technology

**Typical applications**

- Remote monitoring of simple detectors (door contact, smoke, power and others)
- Metering water consumption (meter with SO pulse output)
- Metering electricity (kWh) consumption from meter with pulse output


**Related products**

- Door contact MK4**  
Security Door contact MK4 with 2m connection wiring.
- Water meter (SO output)**  
Any 3" party meter with pulse output (SO) can be connected to the Portal.
- Optical Smoke Detector**  
Optical Smoke Detector FDR26 for smoke detection and fire alarm signalisation.
- Power detector**  
Detector of 110/230V voltage failure, which can be connected directly to a wall plug. Galvanic insulated relay output (NO) can be connected to any digital input (DI) of any HW group product.

**IoT Monitoring**

[www.HW-group.com](http://www.HW-group.com)

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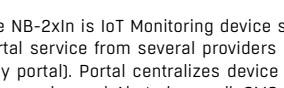
**IoT Monitoring**

### NB-2xIn

Digital Inputs to the Portal








The NB-2xIn connects 2x DI (Digital Input) to the Portal over NB-IoT cellular network.

Each DI reading 0/1 state (Dry Contact) and Portal can analyze that Pulse outputs SO for monitoring water or gas consumption can be also connected.



NB-2xIn is IoT Monitoring device so Portal service is required. Paid portal service from several providers available (any SensDesk Technology portal). Portal centralizes device management, remote FW upgrades, graphs, and Alerts by email, SMS, or Voice-calls. Open API and PDF reports are also available. The device is connected to the portal via NB-IoT (NarrowBand IoT) cellular network.

**Portal based services**

**SIM card included**

Subscribed version of this device is delivered with NB-IoT SIM card included. It provides 3 years of connectivity (3<sup>rd</sup> party SIM card for NB-IoT).

**Internal battery**

The NB-2xIn itself is powered by an internal battery or from an external power supply.

**SensDesk Technology**

- The NB-2xIn device and the portal are products of the HW group and are seamlessly integrated.
- Portal will alert you by email (SMS, Voice Call) if DI is switched On/Off.
- Portal will alert you if device is disconnected (not available).
- Alarm state (0 / 1) can be defined for each DI.
- Free cloud available (HWg-cloud.com) with device management.
- HWg Monitor mobile App can show you all DI states in your portal account.
- SMS, Voice call alerts, or graphs & PDF reports can be used with paid portal services.

**Technical specifications**

External power	5V DC/120mA / Jack Ø 3.5 × 1.35 / 10mm
Internal battery	Lithium 3V model CR123A (primary cell)
Battery lifetime	Up to 3 years / 20 °C
Operating temperature	-10 to +60 °C (for device)
Dimensions / weight	67×78×33mm / 250g
Electromagnetic radiation / EMC	CE/FCC Part 15, Class B / EN 55022, EN 55024, EN 61000

**External sensors**

Sensor ports	2× DI (Digital Input) for dry contact
Type	Digital Input (Dry contact) with SO pulse counter
Pulse counter	SO output compatible, 32-bit pulse counter, min. pulse width 20 ms
Sensitivity	1 (On) = 0-500 Ohm
Max. distance	10 m

**NB-IoT connectivity**

Supported bands	B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B26*/B28/B66
Carrier(s)	Vodafone (global) (HWg SIM card). Other operators on request
*Subscribed version	SIM card with Vodafone NB-IoT 3 years connectivity included
Device certifications	GCF (Global), CE (Europe), FCC/PTCRB (North America), IC, KC, NCC, JATE/TELEC, RCM, NBTC, IMDA
Radio Output power	23dBm ±2dB
Antenna / Sensitivity	External, SMA / 129dBm
Supported protocols	IP: UDP/IP (COAP)
Compatible portals	Any portal based on SensDesk Technology

**Typical application**

- Remote monitoring of simple detectors (door contact, smoke, power and others)
- Metering water consumption (meter with SO pulse output)
- Metering electricity (kWh) consumption from meter with pulse output

**Related products**

- Door contact MK4**  
Security Door contact MK4 with 2m connection wiring.
- Water meter (SO output)**  
Any 3" party meter with pulse output (SO) can be connected to the Portal.
- Optical Smoke Detector**  
Optical Smoke Detector FDR26 for smoke detection and fire alarm signalisation.
- Power detector**  
Detector of 110/230V voltage failure, which can be connected directly to a wall plug. Galvanic insulated relay output (NO) can be connected to any digital input (DI) of any HW group product.

**IoT Monitoring**

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# Flyer A4 (210 × 297 mm)

## HWg-Ares 12



**Ares 12**

Industrial measuring and monitoring for 14 sensors, communication over GSM and back-up power

**Typical application examples**

- GPRS monitoring of machines and their environment
- ATMs – environment monitoring without tampering with the connection
- Art exhibits and depositories
- Storages of food or materials
- Cooling systems and coolers

**HWgroup**

**Ares 12**

Industrial measuring and monitoring for 14 sensors, communication over GSM and back-up power

**Ares 12 is an industrial unit for remote monitoring and alarming over GSM for locations without LAN access. Includes battery backup. Connect up to 14 external sensors and 2 dry contact detectors.**

**Use the SensDesk portal to configure the Ares, send alarms or display graphs.**

**Ares monitors the readings of connected sensors. When a value reaches the alarm threshold, the device sends an e-mail or a text message (SMS), or dials specified numbers.**

**Ares products are ready for remote mass deployment using FOTA (Firmware Over The Air).**

- Battery
- 1-Wire UNi sensors
- Digital inputs
- SMS notifications
- E-mail notifications
- Data logging
- USB data port
- SensDesk portal

Connect up to 14 sensors or a relay output extender unit over the 1-Wire/1Wire UNi bus (R11) and up to 2 dry contact inputs for external detectors.

Alarms are notified by calling and texting up to 5 numbers, e-mailing up to 5 addresses, or via the SensDesk portal.

Data can be sent in e-mail attachments or downloaded via USB. Display the data using the SensDesk portal, its iOS or Android mobile version, or third-party apps (Nagios etc.).

The device can be configured remotely at the "AresConf" tab in the SensDesk portal. Remote firmware upload (FOTA) capability makes Ares devices ideal for large-scale deployments.

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**Typical application examples**

- GPRS monitoring of machines and their environment
- ATMs – environment monitoring without tampering with the connection
- Art exhibits and depositories
- Storages of food or materials
- Cooling systems and coolers

**GSM / GPRS**

Interface: Quad-band 850/900/1800/1900MHz, GPRS class 10/B Compliant to GSM phase 2/2+ – Class 4 (2W @ 850/900MHz) – Class 1 (0.7W @ 1800/1900MHz)

Supported protocols: IP-TCP UDP HTTP SMTP SMTB HWg-PUSH

**Sensors**

Type: HWg original accessories: 1-Wire 0-1-Wire UNi

Connector: RJ11 (D-Wire Bus)

Sensors: Up to 14 sensors

Sensor distance: Up to 60m

**Dry contact inputs**

Part: IL, IO

Type: Digital input (supports NO/NC Dry contact)

Sensitivity: 1 (On) = 0-500 Ω (Right pin on the terminal block can be connected to 12V GND)

Max. distance: Up to 50m

**Power input**

Part: 9-30V DC

Type: Main device power input (typically 500mA)

Connector: Jack (barrel, inner 2.1mm outer 5.5mm) + Terminal Block

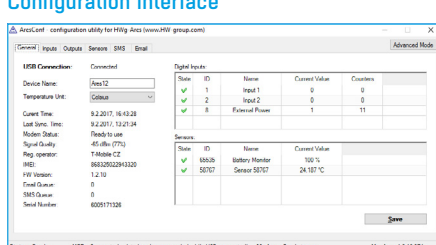
**Physical parameters**

Temperature range: Operating: 5 to +50°C (+41 to +122°F) Storage: -25 to +85°C (-13 to +185°F)

Dimensions / Weight: 78x53x28 mm / 150g

EMC: FCC Part 15, Class B, CE – EN 55022, EN 55024, EN 61000


**Configuration interface**




**Differences between Ares 12 vs. Ares 10**

	Ares 12	Ares 10
1-Wire UNi sensors	14x	3x
External Relay Outputs compatible	✓	✗
Battery	✓	✗


**Versions and related products**




**Ares 12 plain**  
2x 1-Wire UNi, 2x DI, device with battery only




**Ares 12 set**  
Bulk + temperature sensor, power adapter, GSM antenna, USB cable and CD with software



**Ares 10**  
2x 1-Wire UNi, 2x DI



**Expander 4xDI 1W-UNi**  
Expands one 1-Wire UNi to four digital inputs




**Converter 2xPI100 1W-UNi**  
Double converter for PI 100 and PI-1000 probes

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## Ares 12 LTE



**Ares 12 LTE**

LTE remote metering device with free portal for central Device management. SMS, Voice calls & Email Alarming included.

**Typical application examples**

- Electricity distribution networks (transformer stations, lines)
- Water source monitoring, including technical equipment status
- Agricultural premises (greenhouses, granaries, etc.)
- Road, highway, or railroad technology
- Temperature and thermal expansion of structures
- Diesel generators – environment and status monitoring

**HWgroup**

**Ares 12 LTE**

LTE remote metering device with free portal for central Device management. SMS, Voice calls & Email Alarming included.

**Ares 12 LTE is cost-effective remote monitoring and alerting device for remote locations without LAN access. Connect up to 14 external sensors and 2 DI for external detectors with relay output.**

**Ares can be configured locally via USB or remotely from the HWg-cloud.com.**

**Ares can be also connected to any SensDesk portal.**

**SensDesk is remote Monitoring and Alerting system which can be installed on the customer's site. Ares continuously analyzes state and values of connected external sensors. When a value reaches the alarm threshold, Ares can be configured as standalone alerting device (sending Email, SMS or dials Voice Call).**

**You can connect:**

- Temperature (Pt1000)
- Relative Humidity
- Carbon dioxide
- Water Leak Detection
- Atmospheric pressure
- Current (4-20 mA)
- Voltage sensor
- 2x DI (Digital Inputs)
- Power presence
- Smoke detection
- Door contact

**Up to 14 external sensors**

Connect up to 14 external sensor values (RJ11 bus (max. 60 metres). Sensors of current, voltage, temperature, light intensity, CO<sub>2</sub> and VoC are available.

**2x DI for external detectors**

To DI (Digital Input) you can connect 2 external detectors (DI) with relay output. Detectors of smoke, air-flow, flood, power presence are available.

**Remote configuration**

The device can be configured remotely at the "AresConf" tab in the HWg-cloud or SensDesk portal.

**Standalone / IoT Monitoring**

Device can be used as standalone alerting unit with remote web configuration over [HWg-cloud.com](http://HWg-cloud.com) service. Or it can be IoT monitoring device, connected to the portal, where all alarming/reporting is realized from the portal.


**Data graphs on the website**

[HWg-cloud.com](http://HWg-cloud.com) or SensDesk service can receive data from the device and show value graphs. Data can be also sent in e-mail attachments or downloaded via USB.


**5x E-mail / 5x SMS+Ring**

User can be alerted from the device by email or by calling and texting up to 5 numbers. HWg-cloud or SensDesk can be also used for alerting.


**Versions and related products**




**Ares 12 LTE plain**  
Plain unit (to just Ares 12 LTE device without accessories).




**Ares 12 LTE set**  
Ares 12 LTE starting package with temperature sensor, power adapter, external antenna, USB cable.



**Ares 10 LTE plain**  
Plain unit (to just Ares 10 LTE device without accessories).



**Expander 4xDI 1W-UNi**  
Expands one 1-Wire UNi to four digital inputs



**Converter 2xPI100 1W-UNi**  
Double converter for PI100 and PI1000 probes

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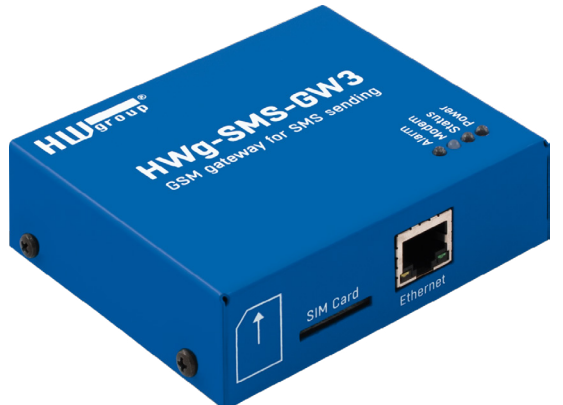
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# Flyer A4 (210 × 297 mm)

## HWg-SMS-GW3



**HWg-SMS-GW3**  
A gateway for sending SMS messages from HWg devices

**Features**

- LAN
- Web server
- GSM/GPRS
- SNMP
- SensDesk portal compatible
- Third party compatible
- Industry 4.0 ready

*Make savings on administration costs with minimum effort by using only one SIM card for sending SMS alarms from all your devices.*  
HWg-SMS-GW3 is a LAN gateway for sending alarm SMS from HW group devices. Alarm messages can be sent from any HW group monitoring unit. No additional software needed, works over LAN on the Box-2-Box (Peer-to-Peer) level. Each device can send its alarm messages to different phone numbers. HWg-SMS-GW3 can be used for sending text messages also from HWg software applications (HWg-Trigger, HWg-DCD) and SensDesk.com online portal. A plug-in is available for sending SMS from the Nagios system.

Only one SIM card is needed for sending SMS messages from all HW group products.	An SMS gateway for your online SensDesk.com portal account.	HWg-DCD2 sends a text message upon unauthorised access to your rack.
HWg-Trigger can notify you by an SMS of a connection issue of any device in your network.	Can be used as a gateway also for HWg-Trigger, HWg-DCD2, Nagios and other applications.	Sends messages from any connected device, even with no Internet connection.
Send SMS from your SensDesk.com account.	No text messaging software needed.	Nagios can send its alert messages via SMS.

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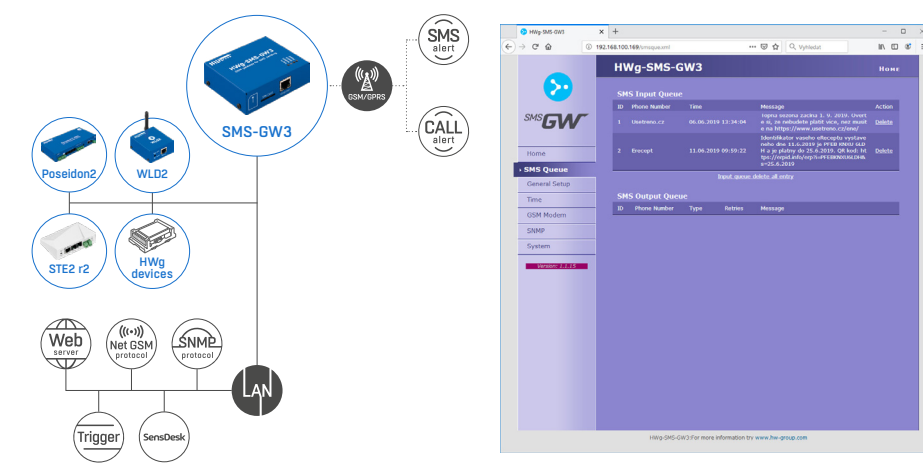
**Features**

- No software needed for sending SMS alarms. Works in the Box-2-Box mode as a Peer-to-Peer.
- Compatible devices: HWg-PWR 3/12/25, HWg-WLD, Poseidon2 and Damocles2, IP WatchDog2.
- Compatible software: HWg-DCD2, HWg-Trigger, Nagios.
- Compatible online services: SensDesk.com.
- Web-based setup and configuration.
- SMS recipients (phone numbers) are set in the devices (software). A single HWg-SMS-GW3 unit can then send messages to tens of different recipients.
- An external antenna can resolve problems in locations with insufficient signal strength.
- A Quad-Band GSM modem allows you to use the gateway in any GSM network around the world.
- Examples of product usage for programmers are available in the HWg-SDK (Borland C++ Builder, MS Visual C, VB, Delphi, C#, PHP, JAVA).

Connection	
Ethernet	100 Mbit/s
IP protocols	ARP, TCP/IP (HTTP, netGSM)
GSM	Quad-Band 850/900/1800/1900 MHz
Antenna	External, SMA Quad-Band, 3m

Message queue	
SMS queue memory	100 messages

Parameters	
Power	9-15 V / 0,4 A
Dimensions	92×76×31 mm
Environment	From -10°C to +65°C (from +14°F to +149°F)
Supported SW	HWg-PDMS, HWg-Trigger




**Versions and related products**

- HWg-SMS-GW3: A standard set, contains a SIM card, an external antenna with 3m cable and a power adapter.
- Poseidon2 3468: Remote monitoring and control for industrial applications with 230V/28A relay outputs.
- STE2: WiFi and Ethernet temperature and humidity sensor with digital inputs.
- SensDesk: Monitoring and control portal for your net projects.
- HWg-SH4: System for access control to databases, commercial objects, offices etc.
- Back-Up UPS 12V: Backup power supply 12 V, 1,3 Ah.

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## SMS-GW3 LTE



**SMS-GW3 LTE**  
A gateway for sending SMS messages from HWg devices

**Features**

- LAN
- Web server
- Lte
- GSM/GPRS
- SNMP
- SensDesk portal compatible
- Third party compatible
- Industry 4.0 ready

*Make savings on administration costs with minimum effort by using only one SIM card for sending SMS alarms from all your devices.*  
SMS-GW3 LTE is a LAN gateway for sending alarm SMS from HW group devices. Alarm messages can be sent from any HW group monitoring unit. No additional software needed, works over LAN on the Box-2-Box (Peer-to-Peer) level. Each device can send its alarm messages to different phone numbers. SMS-GW3 LTE can be used for sending text messages also from HWg software applications (HWg-Trigger, HWg-DCD) and SensDesk.com online portal. A plug-in is available for sending SMS from the Nagios system.

Can be used as a gateway also for HWg-Trigger, HWg-DCD2, Nagios and other applications.	An SMS gateway for your online SensDesk portal account.	Can be used with HWg-DCD2, which sends a text message upon unauthorised access to your rack.
Only one SIM card is needed for sending SMS messages from all HW group products.	Can be used with HWg-Trigger, which can notify you by an SMS of a connection issue of any device in your network.	Sends messages from any connected device, even with no internet connection.

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**Features**

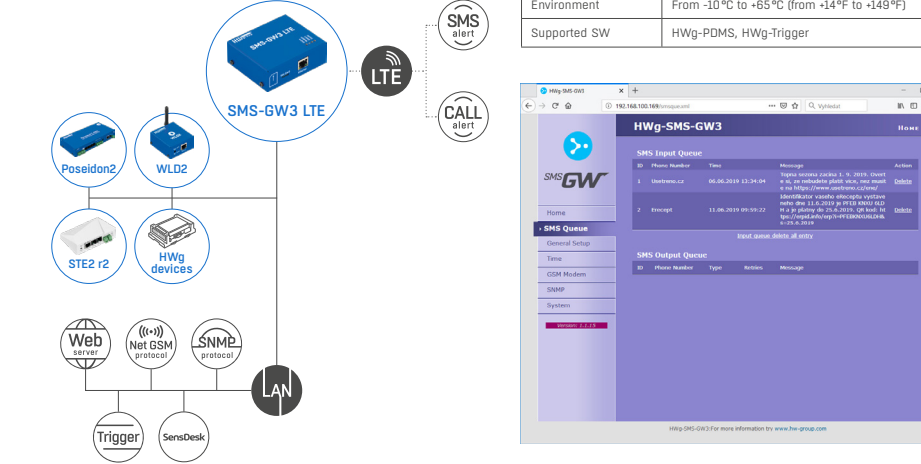
- No software needed for sending SMS alarms. Works in the Box-2-Box mode as a Peer-to-Peer.
- Compatible devices: HWg-PWR 3/12/25, HWg-WLD, Poseidon2 and Damocles2, IP WatchDog2.
- Compatible software: HWg-DCD2, HWg-Trigger, Nagios.
- Compatible online services: SensDesk.com.
- Web-based setup and configuration.
- SMS recipients (phone numbers) are set in the devices (software). A single SMS-GW3 LTE unit can then send messages to tens of different recipients.
- An external antenna can resolve problems in locations with insufficient signal strength.
- Examples of product usage for programmers are available in the HWg-SDK (Borland C++ Builder, MS Visual C, VB, Delphi, C#, PHP, JAVA).

Connection	
Ethernet	100 Mbit/s
IP protocols	ARP, TCP/IP (HTTP, netGSM)
Interface*	FDD LTE band: B1/B3/B5/B7/B8/B20 WCDMA band: B1/B5/B8 GSM band: 850/900 GPRS multi-slot class 12 Class 4 (33dBm +2dB) for GSM800 Class 1 (30dBm +2dB) for DCSS1800 Class E2 (27dBm +3dB) for GSM900 G-PSK Class E2 (28dBm +3dB) for WCDMA bands Class 3 (23dBm +2dB) for LTE FDD bands
Antenna	External, SMA Quad-Band, 3m

\*Choose the model that matches your location. Consult your distributor about the appropriate model.

Message queue	
SMS queue memory	100 messages

Parameters	
Power	9-15 V / 0,4 A
Dimensions	92×76×31 mm
Environment	From -10°C to +65°C (from +14°F to +149°F)
Supported SW	HWg-PDMS, HWg-Trigger




**Versions and related products**

- SMS-GW3 LTE: A standard set, contains a SIM card, an external antenna with 3m cable and a power adapter.
- Poseidon2 3468: Remote monitoring and control for industrial applications with 230V/28A relay outputs.
- STE2: WiFi and Ethernet temperature and humidity sensor with digital inputs.
- SensDesk: Monitoring and control portal for your net projects.
- HWg-SH4: System for access control to databases, commercial objects, offices etc.
- Back-Up UPS 12V: Backup power supply 12 V, 1,3 Ah.

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# Flyer A4 (210 × 297 mm)

## Temp-1Wire Pt100



**Temp-1Wire Pt100**

Temperature sensor with industrial temperature range & precision.

-  -50 °C to +200 °C
-  IP 67 protected
-  Resolution of 0.1 °C
-  Can be calibrated in 8 points
-  High industrial accuracy

*If you need reliable temperature sensor for industrial applications, the Temp-1Wire Pt100 is the right choice. Temperature sensor based on high precision Pt100 probe offers high accuracy over a wide temperature range, IP67 protection and 8-point calibration. The sensor is powered from the RJ11 port, connect it directly to the 1Wire sensor port of HWg device.*

The sensor is supported by all HW group devices with RJ11 port (1Wire or 1Wire UNI). Calibration is possible in 8 points using the HW group Calibrator.

The Temp-1Wire Pt100 is an ideal temperature sensor for storages, food processing, freezers, medical and laboratory environments, agriculture and many other industrial applications.

The HW group monitoring system can be used for regular audits of measured values as well as for monitoring critical temperatures and alarming.

Technical parameters	
Temperature range	-50 °C to +200 °C
Accuracy	±(0.25 + 0.002 t )
Resolution	0.10 °C
Protection	IP67
Cable length	3m
Calibration	Yes, in 8 points

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**Application examples**

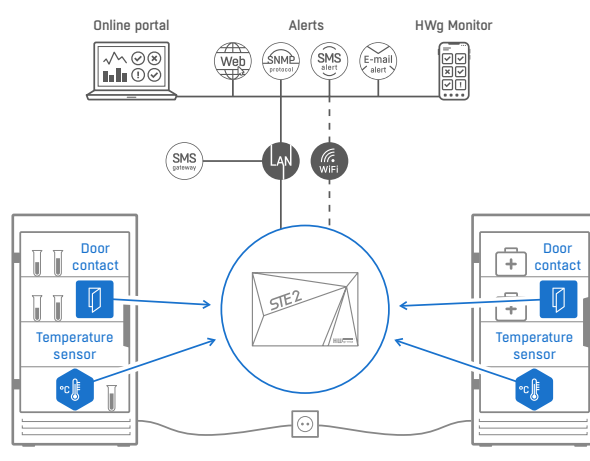
Offering high precision at an affordable price, the Pt100 sensors are designed for demanding industrial applications, where wide temperature range is critical, data needs to be collected for audits and sensors need to operate in a demanding environment.

Setting up the HW group system takes just a few clicks. Sensors are autodetected and the device's web interface allows easy setup for all kinds of data visualizations. With the free SensDesk.com portal you can have the data visualized in just a few minutes from unpacking the device.

For more advanced applications we offer units with wide range of M2M protocols including SNMP, Modbus, TCP, MQTT, XML, HWg Push and more. HW group devices are also supported by many 3<sup>rd</sup> party applications and clouds.

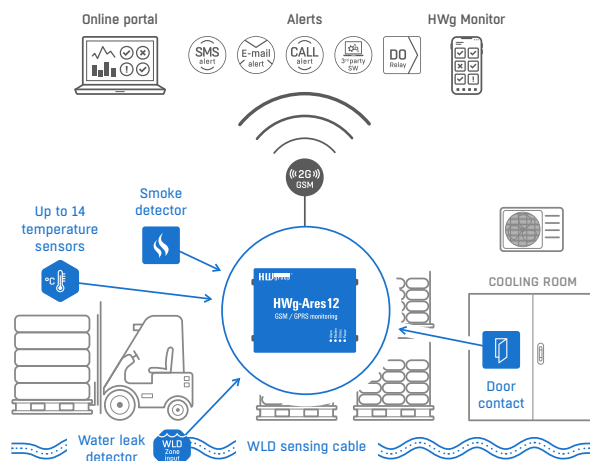
**Temperature monitoring in freezers, food storages and medical applications**

The STE2 device can monitor precise temperature in 2 independent fridges. 2 door contacts can be connected to see if the fridge door has been opened. The data can be visualized on our free IoT portal SensDesk.com. You can also create periodical reports and review data history. The data can also be retrieved from the device itself without the need for a portal. Email alarms can warn you when values are out of range. SMS alarms or calls are available when you connect the SMS Gateway device.




**Temperature monitoring in industrial applications and warehouses**

The Ares devices can connect up to 14 temperature sensors and send the data over GSM/GPRS or LTE. The Ares can also monitor many other environmental parameters, making sure your premises stay safe and monitored and you always have a good overview of what's happening. The data can be visualized on our free IoT portal SensDesk.com. You can also create periodical reports and review data history. The data can also be retrieved from the device itself without the need for a portal. Email, SMS and call alarms can warn you when values are out of range.








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## Temp-1Wire Pt100 Frost



**Temp-1Wire Pt100 Frost**

Temperature sensor with industrial temperature range & precision.

-  -200 °C to +160 °C
-  IP 67 protected
-  Resolution of 0.1 °C
-  Can be calibrated in 8 points
-  High industrial accuracy

*If you need reliable temperature sensor for industrial cryo applications, the Temp-1Wire Pt100 Frost is the right choice. Temperature sensor based on high precision Pt100 probe offers high accuracy over a wide temperature range, IP67 protection and 8-point calibration. The sensor is powered from the RJ11 port, connect it directly to the 1Wire sensor port of HWg device.*

The sensor is supported by all HW group devices with RJ11 port (1Wire or 1Wire UNI). Calibration is possible in 8 points using the HW group Calibrator.

The Temp-1Wire Pt100 Frost is an ideal temperature sensor for storages, food processing, freezers, medical and laboratory environments, agriculture and many other industrial applications.

The HW group monitoring system can be used for regular audits of measured values as well as for monitoring critical temperatures and alarming.

Technical parameters	
Temperature range	-200 °C to +160 °C
Accuracy	±(0.25 + 0.002 t )
Resolution	0.10 °C
Protection	IP67
Cable length	3m
Calibration	Yes, in 8 points

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**Application examples**

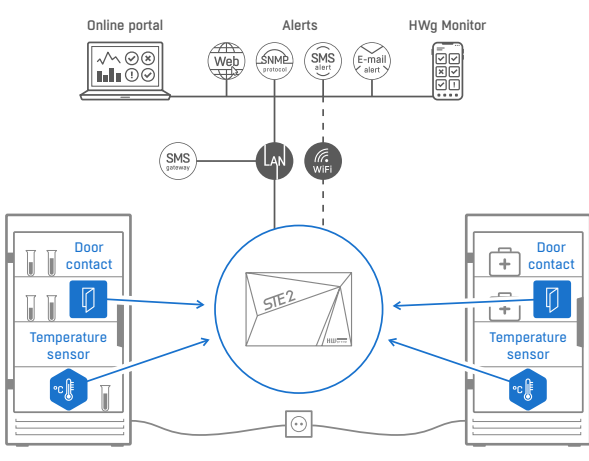
Offering high precision at an affordable price, the Pt100 sensors are designed for demanding industrial applications, where wide temperature range is critical, data needs to be collected for audits and sensors need to operate in a demanding environment.

Setting up the HW group system takes just a few clicks. Sensors are autodetected and the device's web interface allows easy setup for all kinds of data visualizations. With the free SensDesk.com portal you can have the data visualized in just a few minutes from unpacking the device.


For more advanced applications we offer units with wide range of M2M protocols including SNMP, Modbus, TCP, MQTT, XML, HWg Push and more. HW group devices are also supported by many 3<sup>rd</sup> party applications and clouds.

**Temperature monitoring in freezers, food storages and medical applications**

The STE2 device can monitor precise temperature in 2 independent fridges. 2 door contacts can be connected to see if the fridge door has been opened. The data can be visualized on our free IoT portal SensDesk.com. You can also create periodical reports and review data history. The data can also be retrieved from the device itself without the need for a portal. Email alarms can warn you when values are out of range. SMS alarms or calls are available when you connect the SMS Gateway device.



**Temp-1Wire Pt100 Frost is the ideal sensor for the cryo applications**



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# Flyer A4 (210 × 297 mm)

## SensDesk



**SensDesk**  
1st PORTAL BY HW GROUP

**HWgroup**

### SensDesk

Monitoring portal for your IoT projects

SensDesk.com is a web-based service for online remote monitoring and control of HW group sensors and devices. You can monitor temperature, humidity, water leaks, digital inputs, voltage, current, energy consumption and many more. You can also remotely control your technology using outputs. SensDesk is easy to setup, just connect your HW group device to the network, create an account and start monitoring!

SensDesk is for end users as well as project installations with hundreds of devices. It can even also be installed on your own servers. The setup is quick and easy and our sensors can provide data over Ethernet, WiFi, GPRS, LTE or Narrowband IoT.

**WHY USE SENSDESK.COM?**

- Remote monitoring**  
Temperature, humidity, power consumption, intrusion, water detection and many more...
- Event alerts**  
Get alarms over SMS or e-mail and be sure you can respond to the event in time.
- Reports and graphs**  
Generate automatic reports and access data history with just a click.
- Remote output control**  
Use conditions to automatically respond to alarms or control outputs manually.
- User friendly and reliable**  
Easy for home users, robust, customizable and scalable for business.

**SOLUTIONS FOR YOUR BUSINESS**

- Data centers & server rooms
- Industry & manufacturing
- Warehouses & storage rooms
- Schools & public buildings
- Smart cities & municipal
- Logistics & transportation
- Hotels & house rentals
- Pharmacy & medical
- BTS stations & technology
- Stores & retail

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**Alert services**

You can set a safe range of values for any sens in the SensDesk. If this range is exceeded, the system shows an alert for the affected sensor. You can also set more safer ranges if you wish. Alerts can be forwarded to e-mail or SMS. All alerts, such as temporary device or sensor inaccessibility or values out of range, are recorded in the event log for easy system diagnostics.

**Remote process control and switching**

SensDesk can monitor and control virtual outputs of connected devices. User can switch any output manually; in addition, SensDesk provides several simple algorithms for switching the outputs automatically according to sensor states.

**User dashboard, groups and locations**

SensDesk provides tools for customizing the user interface. Users can define names of their sensors, devices and locations. You can also use group related monitoring and control. If you have 1 sensor or 1000, SensDesk always makes it easy for you to see alerts at a glance. All data are presented in charts, with visible operating/safe range limits. Recorded data can be downloaded from the portal in many formats, including XLS, CSV, PDF, JPG, SVG and more.

**Quick setup and configuration**

All HW group IoT devices have a built-in auto detection for the SensDesk portal. Connection of a new device to SensDesk takes less than 60 seconds! All sensors and devices can have custom names and arranged into groups and locations to provide a clear overview according to user preferences.

**SensDesk is free**

Free users can monitor any number of sensors, connected to up to 3 HW group devices. If you need to connect more devices, paid accounts are available. You can also buy your own dedicated SensDesk and run it as a virtual image on your own server.

**HWgroup**

The SensDesk portal is provided in software as a service (SaaS) mode by HW group. Connection of 3<sup>rd</sup> party devices is not supported.  
HW group s.r.o. | Formanská 296 | Prague, 149 00 | Czech Republic | Phone: +420 222 511 918 | [www.HW-group.com](http://www.HW-group.com)

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Download the package  
“Marketing Materials”

Then go to folder Products, then folder

- **Devices** – for flyers, pictures, roll-ups etc. for individual devices
- **Sensors** – for all materials concerning sensors
- **Software** – for materials about SensDesk Technology

Contact [marketing@hwg.cz](mailto:marketing@hwg.cz) with any questions or requests.



**Thanks for attention**

[www.hw-group.com](http://www.hw-group.com)