



# HW group

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*Promo materials 2020*



# PORTFOLIO

## Promo materials

- *Overview Catalog*
- *Flyers*
- *Posters*
- *Roll-ups*



# Overview Catalog (210×297 mm)

## Product Overview



Cover

48 pages







# Flyer A4 (210×297 mm)

## Poseidon2 3468

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

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

Poseidon2 3468 supports up to **6 sensors** connected via 1-Wire LIN / 1-Wire and up to **4 digital inputs** connected to digital inputs. Poseidon2 3468 can control **2 digital 230 V / 16 A relay outputs**, as well as up to **4 virtual digital outputs (VDO)** or remote Poseidon2 or Dancosec2 units (ADM).

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

A built-in web server is used for configuring. The device can be monitored remotely over the internet using the free **SecureWeb panel** in combination with the **SecureWeb Mobile application** for iOS and Android. It works with **MQTT-SNMS** and **MQTT-Trigger**.

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure **MQM protocols (HTTP, 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 units).

A sensor value out of a set value range as well as a set value change sends an alert by e-mail, SMS, Email Trap, or activates a remote relay at another Poseidon2 or Dancosec2 unit. With the **MQTT-SNMS** interface, the system can be converted to cost per time period and exported to MS Excel. MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Brocade Internet of Things and other cloud services.

For 48V or 24V alarm use the **MQTT-Digital-Outputs** software. Examples for programming on using the product are available in the **MQTT-Digital-Outputs** (MS Word, PDF, CH, PNG, JAVX and more).

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancosec2 units on the same LAN.

For 48V or 24V alarm use the **MQTT-Digital-Outputs** software. Examples for programming on using the product are available in the **MQTT-Digital-Outputs** (MS Word, PDF, CH, PNG, JAVX and more).

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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 telec applications
- WMS monitoring
- Cooler and freezer monitoring + alarm indication
- Security and surveillance systems
- Smart buildings

Protocol	Supported protocols
1-Wire	1-Wire (DS19B04-C4 - 10-100 MHz)
Supported protocols	MQTT (BETA), SNMPv3, SNMPv1, SNMPv2c, Modbus (RTU, TCP), IEC 60941, Profibus (DP, RTU, PA, RS, RS485)

Sensors	Digital Outputs (DO)
Sensors	4 - Relay Output 230V / 16A
Digital Outputs (DO)	20 - Can be mapped to another Poseidon2 or Dancosec2

Dimensions / mass	Temperature / mass
Dimensions	140x40x40mm
Mass	200g
Weighting	Plastic

Power	Power consumption
Power	250-300 mWatts
Recorded values	DL, DL
Power	0-230V AC, 48V DC

**User interface**

- Secure Web panel: Remote configuration and data monitoring
- SecureWeb Panel / SecureWeb Mobile application: Cloud panel for data readings and alarming
- MQTT-Trigger: Alert indication to SMS, pop-up messages, PC notification
- MQTT-SNMS: Logging of values, graphs, export to MS Excel
- More software: Third-party software, MQTT-SNMS

**Configuration interface**

**Selected features**

Selected features	4032	3468	3468	3036
Inputs	1-Wire LIN	32	8	8
Outputs	RS-485	28	-	-
Relay	Relay 230V / 16A	2	-	-
Power	0-230V	4	3	3
Virtual	VDO	8	3	3
Power	0-230V	✓	✓	✓
Virtual	VDO	✓	✓	✓
Power	0-230V	✓	✓	✓
Virtual	VDO	✓	✓	✓

**Versions and related products**

Poseidon2 3468: Remote monitoring and control and a power adapter.  
 Poseidon2 3468 T54t: Remote monitoring and control and a power adapter.  
 Poseidon2 4032 T54t: Remote monitoring and control and a power adapter.  
 Poseidon2 3268 T54t: Remote monitoring and control and a power adapter.  
 HW-24V-0V-34t: 48V sensors for 24V and 0V sensors in LAN includes sensors, one control and a power adapter.

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## Poseidon2 4002

**Secure solution for remote environment monitoring and control of outputs**

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

Poseidon2 4002 can connect up to **62 sensors** (8 via 1-Wire LIN / 1-Wire - 28 via RS-485), **32 digital outputs** via digital dry contact relays (DO), **8 virtual digital outputs** and **4 relay outputs (RDO)**. 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 **SecureWeb panel** in combination with the **SecureWeb Mobile application** for iOS and Android. It works with **MQTT-SNMS** and **MQTT-Trigger**.

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure **MQM protocols (HTTP, 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 units).

A sensor value out of a set value range as well as a set value change sends an alert by e-mail, SMS, Email Trap, or activates a remote relay at another Poseidon2 or Dancosec2 unit. With the **MQTT-SNMS** interface, the system can be converted to cost per time period and exported to MS Excel. MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Brocade Internet of Things and other cloud services.

For 48V or 24V alarm use the **MQTT-Digital-Outputs** software. Examples for programming on using the product are available in the **MQTT-Digital-Outputs** (MS Word, PDF, CH, PNG, JAVX and more).

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For 48V or 24V alarm use the **MQTT-Digital-Outputs** software. Examples for programming on using the product are available in the **MQTT-Digital-Outputs** (MS Word, PDF, CH, PNG, JAVX and more).

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancosec2 units on the same LAN.

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- Remote I/O control and monitoring over the Ethernet
- UPS / back-up generator monitoring
- Industrial applications
- WMS monitoring
- Cooler and freezer monitoring + alarm indication
- Security and surveillance systems
- Smart buildings

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Weighting	Plastic

Power	Power consumption
Power	250-300 mWatts
Recorded values	DL, DL
Power	0-230V AC, 48V DC

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**Configuration interface**

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Power	0-230V	✓	✓	✓
Virtual	VDO	✓	✓	✓
Power	0-230V	✓	✓	✓
Virtual	VDO	✓	✓	✓


**Versions and related products**

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# Flyer A4 (210×297 mm)

## Damocles2 MINI



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

**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**

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

**Configuration interface**

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

**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**

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


**Configuration interface**

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## Damocles2 1208



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

**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**

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

**Configuration interface**

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

**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**

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

**Configuration interface**

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# Flyer A4 (210×297 mm)

## HWg-STE



**HWg-STE**

Web thermometer with Ethernet and software for creating MS Excel reports

- E-mail alerts
- Temperature
- Humidity
- Web server
- Password protection
- SNMP
- Easy installation

HWg-STE monitors temperature and humidity using external probes, supports SNMP and connects to the Internet through an Ethernet network. Get immediately notified via e-mail whenever the monitored values exceed the allowed range.

HWg-STE supports up to three sensors connected over the 1-Wire bus. A built-in web server is used for configuring. The device can be monitored remotely over the Internet. It is supplied with the free HWg-PDMS software for creating graphs and exporting data to MS Excel.

**Food storage**

Define optimal storage conditions. With application software, HACCP reports can be created.

**Service provision monitoring**

With the supplied HWg-PDMS software, easily create reports with temperature charts for one or more locations. Monitor the quality of outsourced services.

**HVAC monitoring**

Monitor HVAC systems remotely, get alerted by e-mail or text messages.

Supplied with an AC adapter and a temperature sensor.

Easily create temperature graphs in MS Excel.

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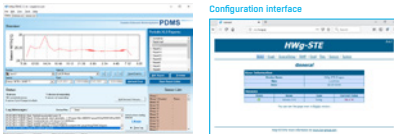
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**Basic features**


- No SW necessary, built-in web server
- Easy installation, DHCP support
- Connects to NMS (SNMP MIB)
- Resolution: 0.1 °C, supports °C/°F on °F
- Sends e-mail if the temperature is too high/ too low
- Security ensured with a password
- Temperature range of the standard sensor: -10 °C to 80 °C, outdoor version: -30 °C to 125 °C
- In addition to the supplied sensor a second temperature or humidity sensor can be connected
- Supplied with the HWg-PDMS software for Windows for plotting charts and exporting data to MS Excel

Parameter	Value
Ethernet	100 Mbit/s
IP protocols	AWS, TCP/IP (SMTP, SNMP, UDP/IP (DHCP))
DHCP for IP assignment	Yes
SNMP	First SMI, Ver. 1.0/1.2 (getter)
MIB protocols	MIB (MIB1, MIB2, SNMP)
Accuracy	±0.5°C (0°C to +40°C) ±0.5°C (0°C to +25°C)
Power	5 V / 100 mA
Operating temperature	0°C to 65°C


**Configuration interface**




**Related products**




**Temp 1-Wire Flat 3in**  
Temperature sensor for indoor and outdoor with a precision and fast electronic, special for cable bundles for measuring temperature in refrigerators and freezers.



**Temp 1-Wire Rack 10**  
Digital temperature and humidity sensor, designed for 1-Wire systems, connects to the 1-Wire bus (R485).



**UPS 12V and 5V**  
Cost-effective and compact power supply for most common powered from 12V to 5V adapters.



**HWg-PDMS**  
Monitoring software with charts and MS Excel reports. Windows application for data collection over SNMP and LAN.

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## STE2



**STE2**

WiFi / Ethernet thermometer with DI inputs

**Key features:**

- Includes standard Ethernet and Wi-Fi - 802.11 b/g/n (2.4GHz)
- Supports simultaneous operation of Ethernet and Wi-Fi (for easy configuration)
- SV power supply or PoE
- Simple installation, supports DHCP
- Built-in WEB server - no need for software other than a standard Web browser
- NMS connectivity (SNMP MIB)
- Sends e-mail at too high / low temperature
- Support for TLS authentication (Email)
- Security password protected
- Supplied with Windows software HWg-PDMS for graphing and data export to MS Excel

- Temperature
- Humidity
- Digital inputs
- E-mail alert
- SNMP
- TLS
- PoE
- Web Server
- HWg Push

STE2 is a device that supports SNMP designed for temperature and humidity measurements from external sensors and the ability to connect to the Internet via standard cable or Wi-Fi. When the permitted range of values is exceeded the device allows alarm messages to be sent by e-mail (TLS), the SensDesk portal (HWg Push). The package includes a power adapter and temperature sensor.

**Air-conditioning failure**

Changes in temperature point to a failure of an A/C unit.

**HVAC supervision**

Remote control of HVAC, email alert, or SMS (e-mail/SMS/HWg-PDMS-DWS).

**Heating optimisation**

Remote monitoring of a heating system, alert by e-mail or SMS to the danger of frost. (Email/SMS).

**HWg-PDMS**

The HWg-PDMS software makes it easy to create reports with temperature graphs in one or more locations. You have control over your environmental conditions.

**Monitoring of refrigerator or freezer**

Sends e-mail if the refrigerator has logs operating and storage conditions.

**Food storage**

Oversees optimal storage conditions. Using application software, you can create HACCP protocols.

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**Key features:**

- Includes standard Ethernet and Wi-Fi - 802.11 b/g/n (2.4GHz)
- Supports simultaneous operation of Ethernet and Wi-Fi (for easy configuration)
- SV power supply or PoE
- Simple installation, supports DHCP
- Built-in WEB server - no need for software other than a standard Web browser
- NMS connectivity (SNMP MIB)
- Sends e-mail at too high / low temperature
- Support for TLS authentication (Email)
- Security password protected
- Supplied with Windows software HWg-PDMS for graphing and data export to MS Excel

Connectivity	Value
Ethernet	RJ45 (10/100/1000-Tx), supports PoE (IEEE 802.3af)
WiFi	Internal antenna, 2.4GHz, 802.11 b/g/n
Web	Built-in web server
Power	Version 1 (SV), reserved, same parts of version 2


External sensors	Value
Sensors	1x-Flat 3in, 2 temperature or humidity sensors
DI input	DI input for potential-free contact

Configuration	Value
MIB protocols	SNMP (MIB1, MIB2)
Access	Email, HWg Push, SMS (with extensions of HWg-PDMS-DWS)

Supported software	Value
HWg Push	Redirection of alarms to SMS, Fax-to-Webhook, PC
HWg-PDMS	Logging, graphs, reports to MS Excel
Other software	3rd side software, HWg-DWS

Parameters	Value
Power supply	5 V / Name pin Power 2 (5.0V, under 0.35-0.41)
Temperature	Operating: -20°C / -4°C / 0°C / 4°C / 50°C
Range	Storage: -30°C / -4°C / 0°C / 50°C
Dimensions	65x40x30 mm
Weight	50g

**Package contents:**



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# Flyer A4 (210×297 mm)

## HWg-Ares 10



**Ares 10**

Low-cost GSM thermometer with remote management and alarming via calls, texts or e-mail

- 3-Wire sensors
- Digital inputs
- SMS notifications
- E-mail notifications
- Data logging
- USB data port
- SensDesk portal
- XML interface

**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

**Key features**

- Very compact enclosure: 1-Wire & 3-Wire bus
- RS485 (3-Wire Bus)
- Up to 2 sensors
- Sensor distance: 100 to 500m

**Dry contact inputs**

Port: 1 L, 1 D  
Type: Digital Input (Supports NO/NC Dry contact)  
Sensitivity: 1-5V to 500 mV (High Z on the internal block can be converted to LV-SMS)  
Max. distance: 100 m (RS485)

**Power input**

Port: 0-24V DC  
Type: Main device power input (Typically 500mA)  
Connector: 2-pin Terminal Block (2x1mm male, 2.5mm)

**Physical parameters**

Temperature range: Operating: 5 to +50°C (41 to +122°F)  
Storage: -25 to +70°C (-13 to +158°F)  
Dimensions / Weight: 76x53x28 mm / 100g  
MPC: 400 Part No: 0206 R1.02 - EN 50100, EN 50304, EN 50306

**Configuration interface**



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

3-Wire sensor	Ares 10	Ares 12
External Relay Outputs compatible	X	✓
Battery	X	✓

**Versions and related products**



**Connect up to 3 sensors over the 3-Wire / 3-Wire (RS485) bus (max 3 measured values) and up to 2 digital 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.**

**The "Start" start set includes a temperature sensor with a cable that can be extended to up to 60 m.**


**Use the USB interface to configure the device from a PC; no need to install any additional software.**

**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).**

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**Ares 10**

Low-cost GSM thermometer with remote management and alarming via calls, texts or e-mail

- 3-Wire sensors
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- Diesel generators - environment and status monitoring

**Key features**

- Very compact enclosure: 1-Wire & 3-Wire bus
- RS485 (3-Wire Bus)
- Up to 2 sensors
- Sensor distance: 100 to 500m

**Dry contact inputs**

Port: 1 L, 1 D  
Type: Digital Input (Supports NO/NC Dry contact)  
Sensitivity: 1-5V to 500 mV (High Z on the internal block can be converted to LV-SMS)  
Max. distance: 100 m (RS485)


**Power input**

Port: 0-24V DC  
Type: Main device power input (Typically 500mA)  
Connector: 2-pin Terminal Block (2x1mm male, 2.5mm)

**Physical parameters**

Temperature range: Operating: 5 to +50°C (41 to +122°F)  
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Dimensions / Weight: 76x53x28 mm / 100g  
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**Configuration interface**



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

3-Wire sensor	Ares 10	Ares 12
External Relay Outputs compatible	X	✓
Battery	X	✓

**Versions and related products**



**Connect up to 3 sensors over the 3-Wire / 3-Wire (RS485) bus (max 3 measured values) and up to 2 digital 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.**

**The "Start" start set includes a temperature sensor with a cable that can be extended to up to 60 m.**


**Use the USB interface to configure the device from a PC; no need to install any additional software.**

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

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## HWg-Ares 12



**Ares 12**

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

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

**Typical application examples**

- CPDS monitoring of machines and their environment
- ATMs - environment monitoring without tampering with the connection
- Art exhibits and depots
- Storage of food or materials
- Cooling systems and coolers

**Key features**

- Very compact enclosure: 3-Wire & 4-Wire bus
- Connector: RS485 (3-Wire Bus)
- Up to 14 sensors
- Sensor distance: 100 to 500m

**Dry contact inputs**

Port: 1 L, 1 D  
Type: Digital Input (Supports NO/NC Dry contact)  
Sensitivity: 1-5V to 500 mV (High Z on the internal block can be converted to 12 V SMS)  
Max. distance: 100 m (RS485)


**Power input**

Port: 0-24V DC  
Type: Main device power input (Typically 500mA)  
Connector: 2-pin Terminal Block (2x1mm male, 2.5mm)

**Physical parameters**

Temperature range: Operating: 5 to +50°C (41 to +122°F)  
Storage: -25 to +70°C (-13 to +158°F)  
Dimensions / Weight: 76x53x28 mm / 100g  
MPC: 400 Part No: 0206 R1.02 - EN 50100, EN 50304, EN 50306


**Configuration interface**



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

3-Wire sensor	Ares 12	Ares 10
External Relay Outputs compatible	✓	X
Battery	✓	X

**Versions and related products**



**CPDS monitoring of machines and their environment**

**ATMs - environment monitoring without tampering with the connection**

**Art exhibits and depots**

**Storage of food or materials**

**Cooling systems and coolers**

**Connect up to 14 sensors or a relay output extender unit over the 3-Wire/4-Wire bus (RS485) and up to 2 dry contact inputs for external detectors.**

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

**Ares 12 includes an internal battery that provides back-up power for up to 24 hours.**


**The "Start" start set includes a temperature sensor with a cable that can be extended to up to 60m.**

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

**Ares 12 can be mounted to a wall or a DIN rail.**

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**Ares 12**

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

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

**Typical application examples**

- CPDS monitoring of machines and their environment
- ATMs - environment monitoring without tampering with the connection
- Art exhibits and depots
- Storage of food or materials
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**Key features**

- Very compact enclosure: 3-Wire & 4-Wire bus
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- Sensor distance: 100 to 500m

**Dry contact inputs**

Port: 1 L, 1 D  
Type: Digital Input (Supports NO/NC Dry contact)  
Sensitivity: 1-5V to 500 mV (High Z on the internal block can be converted to 12 V SMS)  
Max. distance: 100 m (RS485)


**Power input**

Port: 0-24V DC  
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Connector: 2-pin Terminal Block (2x1mm male, 2.5mm)

**Physical parameters**

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Storage: -25 to +70°C (-13 to +158°F)  
Dimensions / Weight: 76x53x28 mm / 100g  
MPC: 400 Part No: 0206 R1.02 - EN 50100, EN 50304, EN 50306


**Configuration interface**



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

3-Wire sensor	Ares 12	Ares 10
External Relay Outputs compatible	✓	X
Battery	✓	X

**Versions and related products**



**CPDS monitoring of machines and their environment**

**ATMs - environment monitoring without tampering with the connection**

**Art exhibits and depots**

**Storage of food or materials**

**Cooling systems and coolers**

**Connect up to 14 sensors or a relay output extender unit over the 3-Wire/4-Wire bus (RS485) and up to 2 dry contact inputs for external detectors.**

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

**Ares 12 includes an internal battery that provides back-up power for up to 24 hours.**

**The "Start" start set includes a temperature sensor with a cable that can be extended to up to 60m.**


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

**Ares 12 can be mounted to a wall or a DIN rail.**

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# Flyer A4 (210×297 mm)

## Ares 10 LTE



**HWgroup®**  
**Ares**  
**Ares 10 LTE**  
Low-cost GSM/LTE thermometer with remote management and alarming via calls, texts or e-mail

- 3-Wire sensors
- Digital inputs
- SMS notifications
- E-mail notifications
- Data logging
- USB data port
- SensDesk portal compatible
- XML interface

Ares 10 LTE is a cost-effective GSM/LTE thermometer for remote monitoring and alerting over GSM for locations without LAN access. Connect up to 3 external sensors and 2 dry contact detectors.

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

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

Connect up to 3 sensors over the 3-Wire / 3-Wire LUN (RS485) bus (max 3 measured values) and to 2 digital dry contact inputs for external detectors.

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

The "Start" slot set includes a temperature sensor with a cable that can be extended to up to 60 m.

Alarms are notified by calling and texting up to 5 numbers, e-mailing up to 3 addresses, or via the SensDesk portal.

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

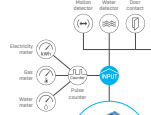
Use the USB interface to configure the device from a PC; no need to install any additional software.

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## double sided

**Typical application examples**

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



**Connection**

Type	Single terminal, accessories: 3-Wire & 3-Wire LUN
Connector	RS485 2-Wire Bus
Sensors	Up to 3 sensors
Sensor distance	Up to 60m

**Dry contact inputs**

Type	N.O.
Type	Digital input (AccessCtrl Dry Contact)
Sensitivity	1 Dry - 0-200 Ω (Pulse on the terminal block can be connected to 25-200 Ω)
Max. distance	Up to 50m


**Power input**

Type	0-20V DC
Type	Main device power input (max. 500mA)
Connector	2-pin female, 2.1mm (male 2.5mm) + 4-terminal block

**Operation parameters**

Temperature range	Operating: -40-125°C (max to 125°C) Storage: -25 to 65°C (-13 to 147°F)
Humidity range	0-100% RH, non-cond.
EMC	Class B, CE - EN 55022, EN 55024, EN 55024, EN 55024, EN 55024


**Configuration interface**



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

3-Wire LUN sensors	Ares 10 LTE	Ares 12 LTE
External Relay Outputs compatible	X	✓
Battery	X	✓

**Versions and related products**




Ares 10 LTE plain  
Ares 10 LTE set  
Ares 12 LTE  
Converter 2-Wire LUN  
USB 2-Wire LUN  
USB 2-Wire LUN

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## Ares 12 LTE



**HWgroup®**  
**Ares**  
**Ares 12 LTE**  
Industrial measuring and monitoring for 14 sensors, communication over GSM/LTE and back-up power

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

Ares 12 LTE is an industrial unit for remote monitoring and alarming over GSM/LTE 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 LTE, send alarms or display graphs.

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

Connect up to 14 sensors or a relay output extender unit over the 3-Wire/3-Wire LUN (RS485) 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 3 addresses, or via the SensDesk portal.

Ares 12 LTE includes an internal battery that provides back-up power for up to 24 hours.

The "Start" slot set includes a temperature sensor with a cable that can be extended to up to 60m.

Ares 12 LTE can be mounted to a wall or a DIN rail.

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

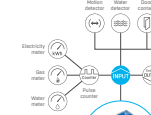
The device can be configured remotely at the "AccessCtrl" tab in the SensDesk portal. Remote firmware upload (FOTA) capability makes Ares LTE devices ideal for large-scale deployments.

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## double sided

**Typical application examples**

- GPS/LTE monitoring of machines and their environment
- AGMS - environment monitoring without tampering with the connection
- Art exhibits and depots
- Storage of food or materials
- Cooling systems and coolers



**Connection**

Type	Single terminal, accessories: 3-Wire & 3-Wire LUN
Connector	RS485 2-Wire Bus
Sensors	Up to 14 sensors
Sensor distance	Up to 60m

**Dry contact inputs**

Type	N.O.
Type	Digital input (AccessCtrl Dry Contact)
Sensitivity	1 Dry - 0-200 Ω (Pulse on the terminal block can be connected to 25-200 Ω)
Max. distance	Up to 50m


**Power input**

Type	0-20V DC
Type	Main device power input (max. 500mA)
Connector	2-pin female, 2.1mm (male 2.5mm) + 4-terminal block

**Operation parameters**

Temperature range	Operating: -40-125°C (max to 125°C) Storage: -25 to 65°C (-13 to 147°F)
Humidity range	0-100% RH, non-cond.
EMC	CE - EN 55022, EN 55024, EN 55024, EN 55024


**Configuration interface**



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

3-Wire LUN sensors	Ares 12 LTE	Ares 10 LTE
External Relay Outputs compatible	✓	X
Battery	✓	X

**Versions and related products**



Ares 12 LTE plain  
Ares 12 LTE set  
Ares 10 LTE  
Expander 4-Wire LUN  
Converter 2-Wire LUN

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# Flyer A4 (210×297 mm)

## HWg-SMS-GW3



**HWg-SMS-GW3**

A gateway for sending SMS messages from HWg devices

- 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-QCD) 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-QCD sends a text message upon unauthorized access to your rack.
HWg-Trigger can notify you by an SMS of a connection issue at any device in your network.	Can be used as a gateway also for HWg-Trigger, HWg-QCD, 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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Front page

## double sided

**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, Poseidon and Damocles2, IP WatchDog.
- Compatible software: HWg-QCD, 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**

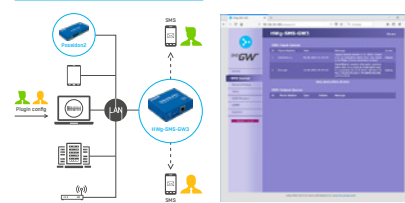
Ethernet	100 Mbit/s
IP protocols	ARP, TCP/IP (HTTP, netSMB)
SDM	Quad-Band GSM / GPRS / 3GDD / 3GDD+ MHz
Antenna	External, SMA Quad-Band, 3in

**Message count**

SMS queue memory	100 messages
------------------	--------------

**Parameters**

Power	3-15V / 0.4A
Dimensions	52*78*31 mm
Environment	From -20°C to +65°C (0 in -14°F to +149°F)
Supported SW	HWg-PWR, HWg-Trigger



**Versions and related products**

- HWg-SMS-GW3
- Powerbox 2468
- STC
- SensDesk
- HWg-SM4
- Back-Up UPS 12V

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## SMS-GW3 LTE



**SMS-GW3 LTE**

A gateway for sending SMS messages from HWg devices

- 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-QCD) 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-QCD, Nagios and other applications.	An SMS gateway for your online SensDesk.com portal account.	Can be used with HWg-QCD, which sends a text message upon unauthorized 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 notifies you by an SMS of a connection issue at any device in your network.	Sends messages from any connected device, even with no internet connection.

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## double sided

**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, Poseidon and Damocles2, IP WatchDog.
- Compatible software: HWg-QCD, 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**

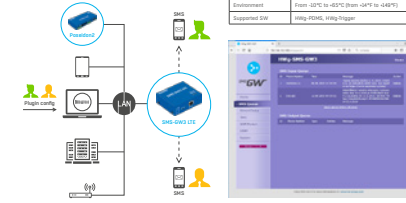
Ethernet	100 Mbit/s
IP protocols	ARP, TCP/IP (HTTP, netSMB)
SDM	Quad-Band GSM / GPRS / 3GDD / 3GDD+ MHz
Antenna	External, SMA Quad-Band, 3in

**Message count**

SMS queue memory	100 messages
------------------	--------------

**Parameters**

Power	3-15V / 0.4A
Dimensions	52*78*31 mm
Environment	From -20°C to +65°C (0 in -14°F to +149°F)
Supported SW	HWg-PWR, HWg-Trigger



**Versions and related products**

- SMS-GW3 LTE
- Powerbox 2468
- STC
- SensDesk
- HWg-SM4
- Back-Up UPS 12V

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# Flyer A4 (210×297 mm)

## Temp 1Wire Pt1000

**Temp 1Wire Pt1000**

Industrial precision sensor

**High industrial accuracy**

**IP67 protected**

**High temperature resolution of 0.1°C**

**Wide temperature range (-50°C - 200°C)**

**Affordable price**

**Can be calibrated in 8 points**

**Frost version available (-200°C - 180°C)**

**Compatible with: Posidon2, HW-ST5, ST12, HW-A4x, SD and NB devices**

*If you need the best sensor for industrial applications, the Temp 1Wire Pt1000 is the right choice. The Pt1000 sensor offers high accuracy over a wide temperature range, long life and IP67 protection. The sensor is connected directly to the 1-wire bus without the need of an additional converter.*

The sensor is supported by all HW group devices that feature a 1-wire sensor port. Calibration is possible in 8 points using the HW group Calibrator device.

The Temp 1Wire Pt1000 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	-50°C up to 200°C (-200°C - 180°C Frost version available)
Accuracy	±(0.25 + 0.025%)
Resolution	0.10
Protection	IP67
Cable length	3m
Calibration	Yes, in 8 points

Front page

## double sided

**Application examples**

Offering high precision at an affordable price, the Pt1000 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 auto-detected 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 I/O protocols including Smart Modbus, I2C, RS485, CAN, RS485 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 ST52 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 receive periodic reports and review data history. The data can also be retrieved from the device itself without the need for a portal. Email alerts can occur when values are out of range. SMS alarm calls are available when you connect the SMS Gateway device.

**Temperature monitoring in industrial applications and warehouses**

The Area devices can connect up to 10 Pt1000 sensors and send the data over GSM/GPRS or LTE. The Area 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 periodic 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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## SensDesk

**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 SENSEDESK.COM?**

- Remote monitoring**  
Temperature, humidity, power consumption, intrusion, water detection and many more...
- Event alerts**  
Get alerts 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**  
Clear 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
- Warehouses & storage rooms
- Smart cities & municipal
- Hotels & house rentals
- BTS stations & technology
- Industry & manufacturing
- Schools & public buildings
- Logistics & transportation
- Pharmacy & medical
- Stores & retail

Front page

## double sided

**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 accessibility 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 manage makes it easy for you to see alerts at a glance. All data are presented in charts, with visible operating 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. | Fomrskova 216 | Prague, 140 00 | Czech Republic | Phone: +420 222 311 916 | www.hw-group.com

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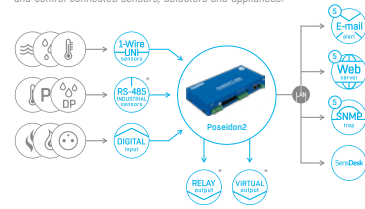
# Poster A1 (594×841 mm)

## Poseidon2



### Poseidon2

The Poseidon2 devices connect mainly sensors and a small number of I/O (Inputs / Outputs) to the Ethernet so the user can monitor and control connected sensors, detectors and appliances.



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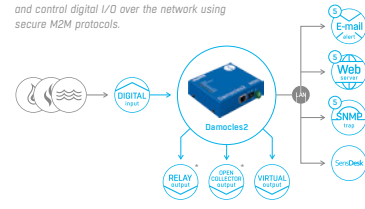
\* Depending on the purchase model of the Poseidon2 series.

## Damocles2



### Damocles2

Damocles2 devices are designed to monitor and control digital I/O over the network using secure M2M protocols.



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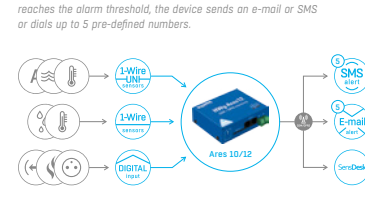
\* Depending on the purchase model of the Damocles2 series.

## HWg-Ares 10/12



### Ares 10/12

Ares monitors the readings of connected sensors. When a value reaches the alarm threshold, the device sends an e-mail or SMS or dials up to 5 pre-defined numbers.



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## HW group IoT platform



### HW group IoT platform

Sensors, applications and cloud solutions for environment and industrial system condition monitoring

#### Sensors for IoT portal Sensdesk



#### Wire & Wireless public and private networks



#### Web User Interface



#### Cloud Solution



SensDesk Kross

#### Standard 6 Secure IT protocols



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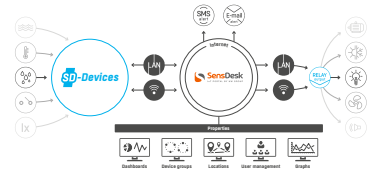
# Poster A1 (594×841 mm)

## SD devices



### SD devices

The SD family are 4 simple devices for the monitoring of temperature, humidity, voltage, current and other parameters. They also detect water leaks, smoke, movement or open doors. The devices connect via Ethernet or WiFi to the SensDesk.com portal.



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## SensDesk

**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 SENSEDESK.COM?**

- Remote monitoring**  
Temperature, humidity, power consumption, intrusion, water detection and many more...
- Event alerts**  
Get alerts 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





**Thank you for  
your attention.**



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