



HW group

Promo materials 2019



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Promo materials

- Overview Catalog
- Flyers
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- Roll-ups



Overview Catalog (210×297 mm)

Product Overview



Cover



28 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 **8 digital inputs** 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)** or remote Poseidon2 or Danco2es2 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 (IPV6, 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 suite range as well as a set suite change sends an alert by e-mail, SMS, Email Trap, or activates a remote relay of another Poseidon2 or Danco2es2 unit. With the **MQTT-SNMS** protocol, the system can be converted to cost per time period and exported to MS Excel.

For 48V or 24V alarm use the **MQTT-SNMS** software (optional CD-ROM included) or **MQTT-SNMS** in the same LAN.

Examples for programming on using the product are available in the **MQTT-SNMS** (for MS Excel, CSV, PHP, JAVA and more).

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Danco2es2 units on the same LAN.

Configuration interface

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
- WAC monitoring
- Cooler and freezer monitoring + alarm indication
- Security and surveillance systems
- Smart buildings

Technical specifications

General	HW 02000402-04 - 16-1000 MHz
Supported protocols	MQTT (IPv4, IPv6), SNMPv3, Modbus, IEC 60870-5-101, IEC 60870-5-203, IEC 60870-5-104, IEC 60870-5-205
Sensors	<ul style="list-style-type: none"> 1-Wire LIN / 1-Wire 8 digital inputs with 32-bit pulse counters
Outputs	<ul style="list-style-type: none"> 2 relay outputs (DO) 8 virtual digital outputs (VDO)
Dimensions / mass	<ul style="list-style-type: none"> Dimensions: 140x40x50mm Mass: 200g Mounting: Panel
Power	<ul style="list-style-type: none"> Power sources: 230-240V AC Rated current: 16 A Power: 0-30V DC, 48V DC, 48V AC
Web interface	<ul style="list-style-type: none"> Secure authentication and data encryption SecureWeb Panel / SecureWeb Mobile application Alert notification to SMS, pop-up messages, PC notification Logging of values, graphs, export to MS Excel More software: Three party software, HWg-SDM

Selected features

Selected features	4032	3468	3468	3036
Inputs	1-Wire LIN	16	8	8
Outputs	DO	12	4	4
Relays	RS-485	28	-	-
Relay outputs	Relay 230V / 16A	-	2	-
Virtual outputs	Relay 230V / 16A	-	2	-
VDO	8	3	3	-
Power	0-230V	✓	✓	✓
48V	16V	✓	✓	✓
24V	16V	✓	✓	✓
48V	16V	✓	✓	✓
Connected	RS-232	✓	✓	✓

Versions and related products

Poseidon2 3468: remote monitoring sensor and power output
 Poseidon2 3468 T54: remote monitoring sensor and power output
 Poseidon2 4032 T54: remote monitoring sensor, one control and a power output
 Poseidon2 3268 T54: remote monitoring sensor, one control and a power output
 HWg-SMS-DWG Set: SMS gateway for LAN and WAN, includes remote control and power output

HW group s.r.o. | Poseidon2 3468 | Pages: 160-180 | CS:MQ Poseidon2 | Phone: +420 252 361 500 | www.hw-group.com

Front page

double sided

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 (RDOs)**. 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.

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Poseidon2 4002

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Flyer A4 (210×297 mm)

Damocles2 2404



Damocles2 2404
Secure Industrial I/O with PoE and telco -48V power options

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

Damocles2 2404 provides 24 digital inputs (DI) for dry contact detectors. All digital inputs feature 50 pulse counters with a memory to connect water, gas, electricity or other meters. Damocles2 2404 controls 4 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. Thanks to 0-20 VDC, 0-8V and PoE power options, Damocles2 2404 can be deployed in a wide range of scenarios.

Damocles2 devices are designed to monitor and control digital I/O over the network using secure MQTT protocols (HTT, 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:

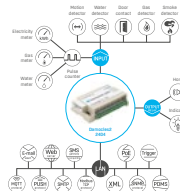
- Web-based configuration
- All inputs feature 32-bit pulse counters that retain their value even if the power falls
- Supports "SMS + Ring" function
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Alibaba Internet of Things and other cloud services
- When a DI state changes, the device sends an e-mail, SMS, SNMP Trap, or activates a remote relay at another Damocles2 unit
- With the HWig-FDM3 software, DI pulses can be converted to cost per time period and exported to MS Excel
- To send an alarm SMS whenever a DI state changes, use the HWig-Fringer software, or a HWig-SMS-GW gateway in the same LAN
- Examples for programming are available in the HWig-SDK (Bertrand 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 (DI/DO) or other Damocles2 units on the network

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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



General

Interface	RS485 (MODBUS-RTU, 10-1200 Mbps, supports PoE (Power over Ethernet))
Supported protocols	Modbus-RTU, RTU, NTS, SAFY, Modbus, HWig-PLS, CAN, IEC
SNMP compatibility	ver. 1, protocol ver. 2, ver. 3

Digital Inputs (DI)

Input	0-1 Vdc
Type	DIW - Digital Input (supports NO/NC Dry contact)
Pulse counter	32-32-bit

Digital Outputs (DO)

Input	0-1 Vdc, 0-10 Vdc, 0-24 Vdc relay contacts (NO, COM, NC)
Max. load	Max. 4 V/250 mA

Power

Internal memory	256,000 records
External memory	SD, USB
Power	0-20 VDC, 0-8 V PoE

Supported features

- HWig-Fringer: Alarm indication by SMS, HTTP-notify messages, IEC, Modbus
- HWig-FDM3: Logging of values, graphs, reports to MS Excel
- Cloud solutions: The cloud, software, HWig-Cloud


Dimensions / notes

Dimensions	175x45x138 mm
Weight	400 g


Main changes in the 2nd generation

2nd-generation Damocles2	Damocles2 2404
Knowledge of IP filter	✓
SNMPv3	✓
HWig-PLS (External control)	✓
Direction Input (DIW-DIWS)	✓
Virtual Output (VMS)	✓
External control (EC) system	✓
HTTWS	✓
IPsec	✓
MQTT (not provided)	✓
Group Alarm	✓

Configuration interface



Versions and related products



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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 I-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.

HMC 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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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 or °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

Features	
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 (queried)
MIB protocols	MIB (MIB2), SNMP
Accuracy	±0.5°C (20°C to 40°C) ±0.7°C (50°C to 80°C)
Power	5V 1.0W
Operating temperature	0°C to 65°C


Configuration interface




Related products




Temp 1-Wire Flat 3in
Temperature sensor for indoor and outdoor use with a precision metal electrode, special the cable enables for measuring temperature in refrigerators and freezers.



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



UPS 12V and 5V
Cost-effective and handy sensor, designed for most common powered from 12V or 5V adapters.



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

HWgroup S.p.A. | PIAZZA D'ARCO | 03040 PIAZZANO | PHONE: +39 0773 501 500 | WWW.HWGROUP.COM

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STE2



STE2

WiFi / Ethernet thermometer with DI inputs

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.

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

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 2-SMS, HWg-SMS-DWS).

Heating optimisation

Remote monitoring of a heating system, alert by e-mail or SMS to the danger of frost. (Email 2-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	
Ethernet	RJ45 (10/100/1000-T), supports PoE (IEEE 802.3af)
WiFi	Internal antenna, 2.4GHz, 802.11 b/g/n
Web	Built-in web server
Power	Version 1 only, reserved, same parts of version 2

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

MIB protocols	
SNMP protocols	Standard MIB, HWg-MIB
Alarms	Email, HWg Push, SMS (with extensions of HWg-SMS-DWS)

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

Parameters	
Power supply	5V / Name pin Power 2 (5.0V, under 0.33-ohm)
Temperature	Operating: -20°C / -40°C / 0-50°C
Humidity	Operating: 20% / 80% / 0-95% RH
Dimensions	65x40x30 mm
Weight	500g

Package contents:




HWgroup S.p.A. | PIAZZA D'ARCO | 03040 PIAZZANO | PHONE: +39 0773 501 500 | WWW.HWGROUP.COM

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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

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

100 LTE base: 80-100-100-100-100
MCC/MNC base: 80-100-100
3GPP band: 800-900-0000-0000 multi-std class 12

Interface

Class 4 (20-48m - 240m for GSM900)
Class 1 (20-48m - 240m for GSM1800)
Class 12 (20-48m - 240m for GSM1900 & PCS)
Class 2 (20-48m - 240m for GSM900 base)
Class 3 (20-48m - 240m for LTE FDD bands)

Supported protocols 4G-LTE with 4G LTE (FDD) only, 3GPP

Sensors

Type: 1-Wire digital, accuracy: 1-Wire 0.1 3-Wire 0.1
Connector: RS485 2-Wire Bus
Capacity: Up to 32 sensors
Sensor distance: Up to 60m

Dry contact inputs

Type: 1-2
Note: Digital input (max. 10V DC, 10mA)
Capacity: 1 Dry - 0-100 V (RMS) on the terminal block and 10-100 V (RMS) on the terminal block
Max. distance: Up to 50m

Power input

Type: 0-20V DC
Note: Main device power input (max. 500mA)
Connector: 2-Wire (max. 2.1mm wire, 0.5mm)
+ Terminal block

Operation parameters

Temperature range: Operating: 0 to 60°C (32 to 145°F)
Storage: -25 to 65°C (-13 to 149°F)
Temperature range: -25 to 65°C (-13 to 149°F)
LTC: Class B, CE - EMC, RoHS, REACH, EN 60529

Configuration interface

Connect up to 3 sensors over the 3-Wire / 3-Wire LIN (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 3 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.

Differences between Ares 10 LTE vs. Ares 12 LTE

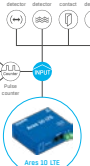
3-Wire LIN sensors	Ares 10 LTE	Ares 12 LTE
External Relay Outputs compatible	X	✓
Battery	X	✓

Versions and related products

Ares 10 LTE plain
Ares 10 LTE set
Ares 12 LTE
Converter 2xRS485 1W-LIN
VPS 12V

Front page

double sided



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

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

100 LTE base: 80-100-100-100-100
MCC/MNC base: 80-100-100
3GPP band: 800-900-0000-0000 multi-std class 12

Interface

Class 4 (20-48m - 240m for GSM900)
Class 1 (20-48m - 240m for GSM1800)
Class 12 (20-48m - 240m for GSM1900 & PCS)
Class 2 (20-48m - 240m for GSM900 base)
Class 3 (20-48m - 240m for LTE FDD bands)

Supported protocols 4G-LTE with 4G LTE (FDD) only, 3GPP

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Type: 1-2
Note: Digital input (max. 10V DC, 10mA)
Capacity: 1 Dry - 0-100 V (RMS) on the terminal block and 10-100 V (RMS) on the terminal block
Max. distance: Up to 50m

Power input

Type: 0-20V DC
Note: Main device power input (max. 500mA)
Connector: 2-Wire (max. 2.1mm wire, 0.5mm)
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Operation parameters

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Configuration interface

Connect up to 3 sensors over the 3-Wire / 3-Wire LIN (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 3 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.

Differences between Ares 10 LTE vs. Ares 12 LTE


3-Wire LIN 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 2xRS485 1W-LIN
VPS 12V

Back page

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

Typical application examples

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

Connection

100 LTE base: 80-100-100-100-100
MCC/MNC base: 80-100-100
3GPP band: 800-900-0000-0000 multi-std class 12

Interface

Class 4 (20-48m - 240m for GSM900)
Class 1 (20-48m - 240m for GSM1800)
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Use the USB interface to configure the device from a PC - no need to install any additional software.

Differences between Ares 12 LTE vs. Ares 10 LTE

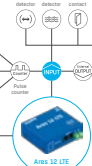
3-Wire LIN sensors	Ares 12 LTE	Ares 10 LTE
External Relay Outputs compatible	✓	X
Battery	✓	X

Versions and related products

Ares 12 LTE plain
Ares 12 LTE set
Ares 10 LTE
Converter 2xRS485 1W-LIN
VPS 12V

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double sided



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

Typical application examples

- CPDS monitoring of machines and their environment
- AMS - environment monitoring without tampering with the connection
- Art exhibits and depots
- Storage of food or materials
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Connection

100 LTE base: 80-100-100-100-100
MCC/MNC base: 80-100-100
3GPP band: 800-900-0000-0000 multi-std class 12

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Supported protocols 4G-LTE with 4G LTE (FDD) only, 3GPP

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Configuration interface

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

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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.

Differences between Ares 12 LTE vs. Ares 10 LTE

3-Wire LIN 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
Converter 2xRS485 1W-LIN
VPS 12V

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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-QCD2) 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-QCD2 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-QCD2, 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.

HWgroup
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www.hwgroup.com

Front page

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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, Poseidon and Damocles2, IP WatchDog2.
- Compatible software: HWg-QCD2, 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.
- 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, HTTPS),
SDM	Quad-Band GSM / GPRS / UMS / HSPA
Antenna	External, SMA Quad-Band, 3m


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 (30 min -40°C to +40°C)
Supported SW	HWg-PWR3, HWg-Trigger

Versions and related products



HWg-SMS-GW3: A modular unit, contains a SIM card slot, can be used as a power adapter.

Poseidon 2468: Remote monitoring and control for industrial applications with 24V V.4A outputs.

ST2: Web and Ethernet management and battery sensor with digital inputs.

SensDesk: Monitoring and control portal for all products.

HWg-SM4: Module for access control to telephones, commercial displays, etc.

Back-Up UPS 12V: Backup power supply for LAN, V.4A.

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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-QCD2) 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-QCD2, Nagios and other applications.	An SMS gateway for your online SensDesk portal account.	Can be used with HWg-QCD2, 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 can notify 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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Features

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- Compatible devices: HWg-PWR 3/12/25, HWg-WLD, Poseidon and Damocles2, IP WatchDog2.
- Compatible software: HWg-QCD2, 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, HTTPS)
SDM	Quad-Band GSM / GPRS / UMS / HSPA
Antenna	External, SMA Quad-Band, 3m


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 (30 min -40°C to +40°C)
Supported SW	HWg-PWR3, HWg-Trigger

Versions and related products



SMS-GW3 LTE: A modular unit, contains a SIM card slot, can be used as a power adapter.

Poseidon 2468: Remote monitoring and control for industrial applications with 24V V.4A outputs.

ST2: Web and Ethernet management and battery sensor with digital inputs.

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Flyer A4 (210×297 mm)

Temp 1Wire Pt1000



Temp 1Wire Pt1000

Industrial precision sensor

-  High industrial accuracy
-  IP 67 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

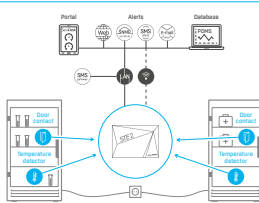
Offering high precision at an affordable price, the Pt1000 sensors are designed for demanding industrial applications, where wide temperature range is critical, data needs to be collected for audits and sensors need to operate in a demanding environment.

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 ports including Smart Modbus, I2C, RS485, CAN, HW Push and more. HW group devices are also supported by many 3rd party applications and clouds.

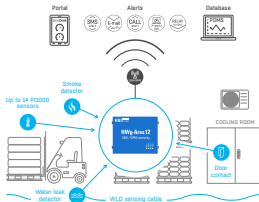
Temperature monitoring in freezers, food storages and medical applications

The ST12 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 16 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 occur 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 TO USE SENSDESK.COM?

-  **Remote monitoring**
Temperature, humidity, power consumption, intrusion, water detection and many more...
-  **Event alerts**
Get alerted over SMS or e-mail and be sure you can respond to 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

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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 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 3rd party devices is not supported. HW group s.r.o. | Fomrskova 216 | Prague, 140 00 | Czech Republic | Phone: +420 222 311 918 | www.hw-group.com

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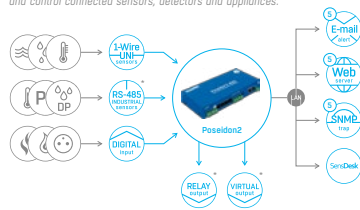
Poster A1 (594×841 mm)

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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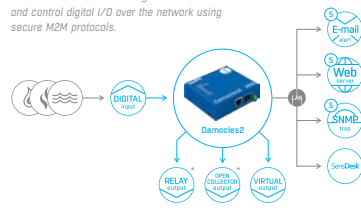
* Depending on the purchase model of the Poseidon2 series.

Damocles2



Damocles2

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



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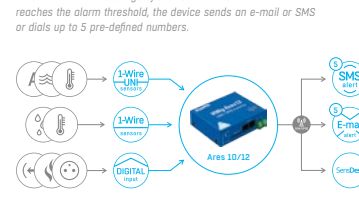
* Depending on the purchase model of the Damocles2 series.

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



SensDesk

Cloud Solution



Kross

Standard & Secure IT protocols



www.hw-group.com

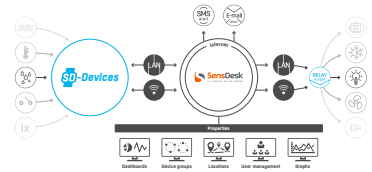
Poster A1 (594×841 mm)

SD devices



SD devices

The SD family contains simple devices for monitoring temperature, humidity and other parameters or for detecting water leaks, smoke or open windows and doors. The devices connect via wired Ethernet or wireless WiFi to the SensDesk.com cloud portal.



www.hw-group.com

www.SensDesk.com

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.

<p>WHY TO USE SENSEDESK.COM?</p> <ul style="list-style-type: none"> Remote monitoring Temperature, humidity, power consumption, intrusion, water detection and many more ... Event alerts Get alerted over SMS or e-mail and be sure you can respond to 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. 	<p>SOLUTIONS FOR YOUR BUSINESS</p> <ul style="list-style-type: none"> 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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Roll-up (850×2000 mm)

Poseidon2



Poseidon2

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



HW group is a Czech technological company focused on development, production and distribution of solutions for remote monitoring, sensing and control in such areas as: fire, air, water, which support the general objective of information on the company in other areas (B2B) and supports its production to meet the customer requirements.



Damocles2



Damocles2

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



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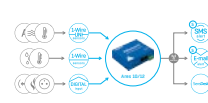


HWg-Ares10/12



Ares 10/12

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



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IoT – made easy



IoT - Internet of Things made easy

HW group is an IoT manufacturer since 2003. Products are designed for monitoring and control of digital input, outputs and sensors.



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IoT platform



HWgroup 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



Standard & Secure IT protocols

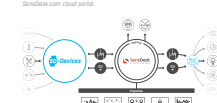


SD devices



SD devices

The SD family contains simple devices for monitoring temperature, humidity and other parameters or for detecting water leaks, smoke or open windows and doors. The devices connect via wired Ethernet or wireless WiFi to the SensDesK.com cloud portal.



Reports and graphs



Standard & Secure IT protocols



SensDesK



SensDesK

Monitoring portal for your IoT projects

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WHY TO USE SENSDESK.COM?

- Remote monitoring: Temperature, humidity, power consumption, voltage, water detection and many more...
- Events alerts: An e-mail or SMS or up to 5 pre-defined numbers can be triggered in case of an event.
- Reports and graphs: Standard & Secure IT protocols. Real-time data history with just a click.
- Remote control: Control your devices remotely using our mobile app.
- User friendly and reliable: The user interface is intuitive, easy to use and suitable for all business.

SOLUTIONS FOR YOUR BUSINESS

- Data centers & server rooms
- Warehouses & storage rooms
- Smart cities & smart buildings
- Hotels & tourist rentals
- RTS services & technology
- Industry & manufacturing
- Schools & public buildings
- Logistics & transportation
- Pharmacies & medical
- Stores & retail

**Thank you for
your attention.**



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