



HW group

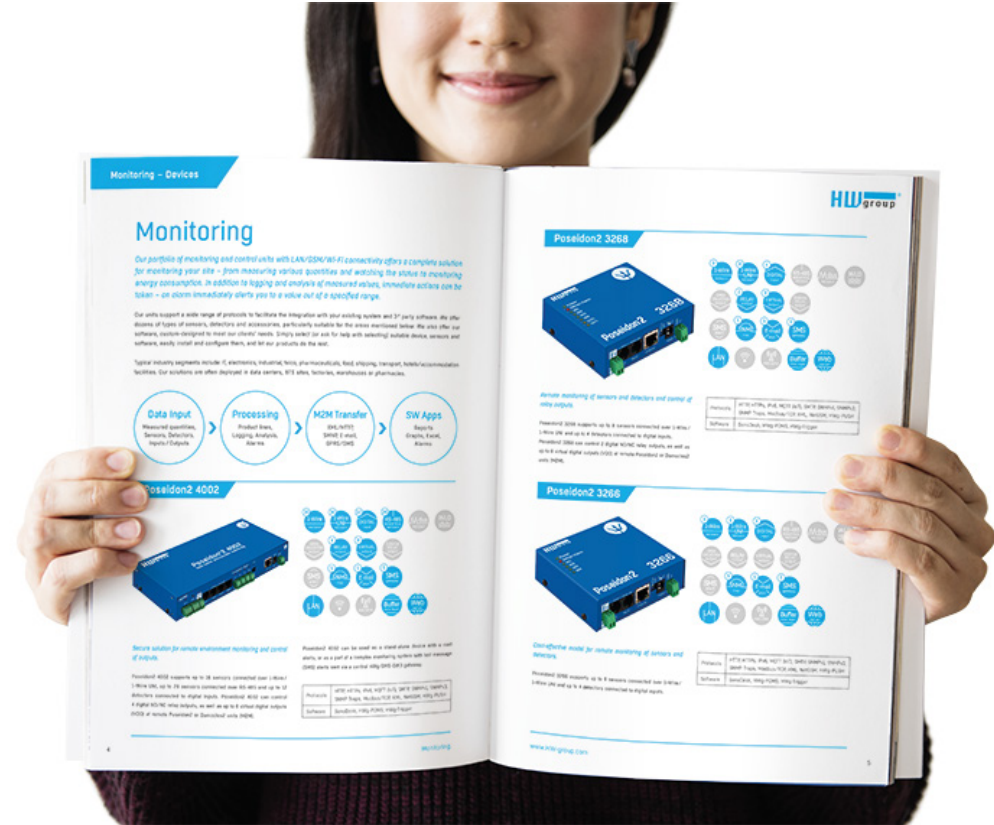
Promo materials 2019



PORTFOLIO

Promo materials

- Overview Catalog
- Flyers
- Posters
- Roll-ups



Overview Catalog (210×297 mm)

Product Overview




Cover



28 pages

Flyer A4 (210×297 mm)

Poseidon2 3266



HWgroup

Poseidon2 3266

Cost-effective model for remote monitoring of sensors and detectors

- 1-Wire I/O sensors
- Digital input
- SNMP trap
- E-mail notification
- MQTT protocol

Poseidon2 3266 supports up to 8 sensors connected over 1-Wire I/O or up to 4 detectors connected to digital inputs.

A built-in web server is used for configuring. The device can be monitored remotely over the Internet using the free **SmartView** control in combination with the **SmartView Mobile application** for iOS and Android. It works with **SNMPv2** and **HTTP-Trigger**.

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

A sensor value out of a set value range as well as a DI state change sends an alert by e-mail, SMS, SNMP Trap, or activates a remote relay in another Poseidon2 or Damocles2 unit.	Compatible with a wide range of third party I/O (SCADA, etc.).	With the SCADA SCADA2 I/O module can be converted to cost per line serial and reported to MS Excel.
For Ring or SMS alarm use the MQTT protocol.	Examples for programmers on using the product are available in the SmartView (iOS/Android), MS Visual , VC , C# , PHP , JAVA , and more).	Connected via LAN. Configuration via built-in web server.
All inputs feature 32-bit pulse counters that retain their status even after power failure.	MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Blyn, and other cloud services.	

For Ring or SMS alarm use the **MQTT** protocol.

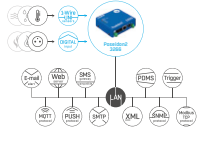
HW group s.r.o. | Poseidon2 3266 | Pages: 001-01 | EAN: 8582 896016 | Phone: +420 222 361 358 | www.hw-group.com

Front page

double sided

Typical application examples

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



Parameter / Item	Value
Dimensions	100x120x40mm
Weight	320g
Mounting	Panel
Storage	100000 records
Relevant values	DI, DO
Power	0-30 V DC, (5W optional)

Use interface

- Built-in Web server: Device configuration and data storage
- SmartView Portal / SmartView Mobile application: Cloud portal for data readings and alarming
- HTTP-Trigger: Alert notifications to SMS, pop-up messages, ICS activation
- MQTT/JSON: Logging of values, graphs, export to MS Excel
- Other interfaces: Third party software, WebDAV

Poseidon2 model comparison

Parameter	3266	3268	3265	3267	3269
Inputs	1-Wire I/O: 8 DI: 12 DO: 4	8 12 4	8 12 4	8 12 4	8 12 4
Outputs	DI: 4 DO: 4	4 4	4 4	4 4	4 4
Power	0-30V -4V -12V	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
LAN	LAN	✓	✓	✓	✓
Connect	RS-485	✓	✓	✓	✓

Configuration interface




Versions and related products

- Poseidon2 3266** remote device
- Poseidon2 3268 Tst** includes a temperature and humidity sensor, door contact and a power detector
- Poseidon2 4022 Tst** includes a temperature sensor, door contact and a power detector
- Poseidon2 3468 Tst** includes a temperature sensor, door contact and a power detector
- Poseidon2 3268 Tst** includes a temperature sensor, door contact and a power detector
- HWy-SM-01V-Set** sets sensors for DI and DO modules in LAN includes sensors and a power detector

HW group s.r.o. | Poseidon2 3266 | Pages: 001-01 | EAN: 8582 896016 | Phone: +420 222 361 358 | www.hw-group.com

Back page

Poseidon2 3268



HWgroup

Poseidon2 3268

Remote monitoring of sensors and detectors and control of relay outputs

- 1-Wire I/O sensors
- Digital input
- Relay output
- Virtual output
- SNMP trap
- E-mail notification
- MQTT protocol

Poseidon2 3268 supports up to 8 sensors connected over 1-Wire I/O or up to 4 detectors connected to digital inputs. Poseidon2 3268 can control 2 digital NO/NC relay outputs, as well as up to 8 virtual digital outputs (VDO) at remote Poseidon2 or Damocles2 units (MQM).

A built-in web server is used for configuring. The device can be monitored remotely over the Internet using the free **SmartView** control in combination with the **SmartView Mobile application** for iOS and Android. It works with **SNMPv2** and **HTTP-Trigger**.

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

Connected via LAN. Configuration via built-in web server.	All inputs feature 32-bit pulse counters that retain their status even after power failure.	Compatible with a wide range of third party I/O (SCADA, etc.).
A sensor value out of a set value range as well as a DI state change sends an alert by e-mail, SMS, SNMP Trap, or activates a remote relay in another Poseidon2 or Damocles2 unit.	With the SCADA SCADA2 I/O module can be converted to cost per line serial and reported to MS Excel.	MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Blyn, and other cloud services.
For Ring or SMS alarm use the MQTT protocol.	Examples for programmers on using the product are available in the SmartView (iOS/Android), MS Visual , VC , C# , PHP , JAVA , and more).	Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Damocles2 units on the same LAN.

For Ring or SMS alarm use the **MQTT** protocol.

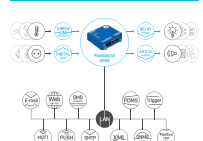
HW group s.r.o. | Poseidon2 3268 | Pages: 001-01 | EAN: 8582 896016 | Phone: +420 222 361 358 | www.hw-group.com

Front page

double sided

Typical application examples

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



Parameter / Item	Value
Dimensions	100x120x40mm
Weight	320g
Mounting	Panel
Storage	100000 records
Relevant values	DI, DO
Power	0-30 V DC, (5W optional)

Use interface

- Built-in Web server: Device configuration and data storage
- SmartView Portal / SmartView Mobile application: Cloud portal for data readings and alarming
- HTTP-Trigger: Alert notifications to SMS, pop-up messages, ICS activation
- MQTT/JSON: Logging of values, graphs, export to MS Excel
- Other interfaces: Third party software, WebDAV

Poseidon2 model comparison

Parameter	3266	3268	3265	3267	3269
Inputs	1-Wire I/O: 8 DI: 12 DO: 4	8 12 4	8 12 4	8 12 4	8 12 4
Outputs	DI: 4 DO: 4	4 4	4 4	4 4	4 4
Power	0-30V -4V -12V	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
LAN	LAN	✓	✓	✓	✓
Connect	RS-485	✓	✓	✓	✓

Versions and related products


- Poseidon2 3268** remote device
- Poseidon2 4022 Tst** includes a temperature sensor, door contact and a power detector
- Poseidon2 3468 Tst** includes a temperature sensor, door contact and a power detector
- Poseidon2 3268 Tst** includes a temperature sensor, door contact and a power detector
- HWy-SM-01V-Set** sets sensors for DI and DO modules in LAN includes sensors and a power detector

HW group s.r.o. | Poseidon2 3268 | Pages: 001-01 | EAN: 8582 896016 | Phone: +420 222 361 358 | www.hw-group.com

Back page

Flyer A4 (210×297 mm)

Poseidon2 3468



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

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

Poseidon2 3468 supports up to **4 sensors** connected via 1-Wire UNI / 1-Wire and up to **4 sensors** 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 Dancolec2 units (DM).

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

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

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure **MDM 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).

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Brocade Internet of Things and other cloud services.

With the **SmartSense panel**, all sensors can be converted to cost per time period and exported to MS Excel.

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancolec2 units on the same LAN.

For wiring to SMS alarm via the **SmartSense software** (external GSM module required), or **SmartSense panel** in the same LAN.

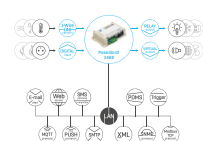
Examples for programming on using the product are available in the **SmartSense Manual** (EN, DE, FR, ES, IT, PT, RU, CN, PHS, JPN and more).

Front page

double sided

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



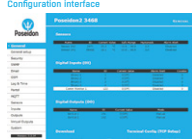
Poseidon2 model comparison

Selected features	4002	3468	3465	3005
Inputs	1-Wire UNI	32	8	8
	RS-485	32	4	4
Outputs	Relay 230V/16A	2	2	-
	Relay 230V/16A	4	-	-
	VDO	8	8	8
Power	9-30V	✓	✓	✓
	48V	✓	✓	✓
	LAN	✓	✓	✓
Connected	RS-232	✓	✓	✓

Versions and related products



Configuration interface



Technical specifications


Parameter	Value
Power	9-30V DC, 48V AC
Dimensions / mass	140x40x50mm
Weight	200g
Mounting	Panel
Material	ABS
Temperature range	-20 to 50°C
Humidity	5-95% RH, 40°C max
Power	0-30V DC, 48V AC

MQTT interface

MQTT Feature	MQTT Support
MQTT Client	MQTT Client and MQTT Broker
MQTT Server	MQTT Server
MQTT Topics	MQTT Topics
MQTT Messages	MQTT Messages
MQTT QoS	MQTT QoS
MQTT Retain	MQTT Retain
MQTT Will	MQTT Will
MQTT Last-Will-Message	MQTT Last-Will-Message
MQTT Clean-Session	MQTT Clean-Session
MQTT Will-Delay-Interval	MQTT Will-Delay-Interval
MQTT Will-Expiration-Interval	MQTT Will-Expiration-Interval
MQTT Will-Message-Expiration-Interval	MQTT Will-Message-Expiration-Interval
MQTT Will-Message-Expiration-Interval	MQTT Will-Message-Expiration-Interval
MQTT Will-Message-Expiration-Interval	MQTT Will-Message-Expiration-Interval

Back page

Poseidon2 4002



Secure solution for remote environment monitoring and control of outputs

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

Poseidon2 4002 can connect up to **42 sensors** (8 via 1-Wire UNI / 1-Wire + 28 via RS-485), **32 relays** 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.

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

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure **MDM 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).

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Brocade Internet of Things and other cloud services.

With the **SmartSense panel**, all sensors can be converted to cost per time period and exported to MS Excel.

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancolec2 units on the same LAN.

For wiring to SMS alarm via the **SmartSense software** (external GSM module required), or **SmartSense panel** in the same LAN.


Examples for programming on using the product are available in the **SmartSense Manual** (EN, DE, FR, ES, IT, PT, RU, CN, PHS, JPN and more).

Front page

double sided

Typical application examples


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



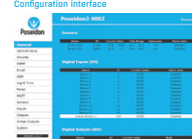
Poseidon2 model comparison

Selected features	4002	3468	3465	3005
Inputs	1-Wire UNI	32	8	8
	RS-485	32	4	4
Outputs	Relay 230V/16A	2	2	-
	Relay 230V/16A	4	-	-
	VDO	8	8	8
Power	9-30V	✓	✓	✓
	48V	✓	✓	✓
	LAN	✓	✓	✓
Connected	RS-232	✓	✓	✓

Versions and related products



Configuration interface



Technical specifications

Parameter	Value
Power	9-30V DC, 48V AC
Dimensions / mass	140x40x50mm
Weight	200g
Mounting	Panel
Material	ABS
Temperature range	-20 to 50°C
Humidity	5-95% RH, 40°C max


MQTT interface

MQTT Feature	MQTT Support
MQTT Client	MQTT Client and MQTT Broker
MQTT Server	MQTT Server
MQTT Topics	MQTT Topics
MQTT Messages	MQTT Messages
MQTT QoS	MQTT QoS
MQTT Retain	MQTT Retain
MQTT Will	MQTT Will
MQTT Last-Will-Message	MQTT Last-Will-Message
MQTT Clean-Session	MQTT Clean-Session
MQTT Will-Delay-Interval	MQTT Will-Delay-Interval
MQTT Will-Expiration-Interval	MQTT Will-Expiration-Interval
MQTT Will-Message-Expiration-Interval	MQTT Will-Message-Expiration-Interval
MQTT Will-Message-Expiration-Interval	MQTT Will-Message-Expiration-Interval
MQTT Will-Message-Expiration-Interval	MQTT Will-Message-Expiration-Interval

Back page

Flyer A4 (210×297 mm)

Damocles2 2404



Damocles2 2404

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









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 8-20 VDC, 48V 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 M2M protocols (HTTPs, IPv6, SNMPv3). With support for over 50 SNMP and SCADA applications, Damocles2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.

Basic features of Damocles2 devices:

- Web-based configuration
- All inputs feature 32-bit pulse counters that retain their value even if the power 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-FPMMS 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-Frigger 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

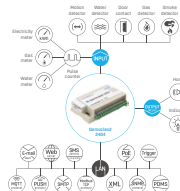
-  Digital inputs
-  Relay outputs
-  Pulse counter
-  Web server
-  E-mail notifications
-  SNMP protocol
-  MQTT protocol
-  Modbus TCP protocol

Front page

double sided

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



Main changes in the 2nd generation

2nd generation Damocles2	Damocles2 2404
Advanced IP filter	X
SNMP3	X
HWig-FPMMS (extended support)	X
Extended relay (MS-DOES)	X
Virtual Output (MS)	X
Administrative (SN) system	X
Control	X
FWP	X
MQTT (not enabled)	X
Group Admin	X

Versions and related products



General	
Interface	RJ45 (10/100/1000 PoE, 10/100 Mbps, supports PoE (Power over Ethernet))
Supported protocols	Modbus-RTU, Modbus-ASCII, IEC61850, HWig-FPMMS, SNMP V2c
SNMP compatibility	ver. 2, protocol ver. 2, ver. 3

Digital Inputs (DI)	
Input	0-1-0/1
Type	DIW: Digital Input (supports NO/NC Dry contact)
Pulse counter	32x 32-bit


Digital Outputs (DO)	
Input	0/1-0/1, 0/1-0/1, 0/1-1/0, 0/1-1/1, relay contacts (NO-COM-NC)
Max. load	100mA, 24VDC

Energy	
Internal memory	256,000 records
External memory	SD, SDHC
Power	8-20VDC, 48V, PoE

Supported features	
HWig-Frigger	Alert notification via SMS, email or messages, IEC 61850
HWig-FPMMS	Logging of values, graphs, reports to MS Excel
Cloud solutions	Therapeutic, software, HWig-SCADA

Dimensions / notes	
Dimensions	170x61x138 mm
Weight	400 g


Configuration interface



Back page

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.

HVAC monitoring

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

Supplied with an AC adapter and a temperature sensor.

Easy create temperature graphs in MS Excel.

Front page


double sided

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

Parameters	
Ethernet	100 Mbit/s
IP protocols	AWS, TCP/IP, UDP, ICMP, UDP/IP (DHCP)
DHCP for IP assignment	Yes
SNMP	Full GET, Ver 1.0/1.2/3 (queried)
MIB protocols	MIB (HWg), SNMP
Accuracy	±0.5°C (20°C to 40°C) ±0.5°C (50°C to 80°C)
Power	5V 1.0A
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 response, supports the cable version for measuring temperature in refrigerators and freezers.
- Temp 2-Wire Back 10**
Digital temperature and humidity sensor, designed for HVAC systems, responds to 1-Wire bus (RS485).
- UPS 12V and 5V**
Cost-effective and compact power supply for most remote 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.

HWgroup S.A. | PIAZZA DELLA LIBERTÀ, 10 | 37060 ROVERETO | PHONE +39 0445 502 500 | WWW.HWGROUP.COM

Back page

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.

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 Push-DWS).

Heating optimisation

Remote monitoring of a heating system, alert by e-mail or SMS to the danger of frost. (e-mail/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 fails. Logs operating and storage conditions.

Food storage

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

Front page

double sided

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)
- 5V power supply or PoE
- Simple installation, supports DHCP
- Built-in WEB server - no need for software other than a standard Web browser
- SNMS 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	10/100/1000-Tx, supports PoE (IEEE 802.3af)
WiFi	Internal antenna, 2.4GHz, 802.11 b/g/n
Web	Built-in web server
SNMP	Version 1.0/3, passworded, same ports of version 2


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

Configuration	
HTTP protocols	GET, POST, HTTP, HEAD
Access	Email, HWg Push, SMS (with extension of HWg-SMS-DWS)

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

Parameters	
Power supply	5V / Name pin Power 2.15mm, Input 2.5x4mm
Temperature range	Operating: -20°C / -80°C / 0/5/10 / 0/5/10/15
Dimensions	Operating: 100x70x30mm / 100x70x30mm / 100x70x30mm
Weight	500g

Package contents:



HWgroup S.A. | PIAZZA DELLA LIBERTÀ, 10 | 37060 ROVERETO | PHONE +39 0445 502 500 | WWW.HWGROUP.COM

Back page

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 railway technology
- Temperature and thermal expansion of structures
- Diesel generators - environment and status monitoring

Key features

- Using regular accessories: 3-Wire & 5-Wire I/O
- RS-485 Modbus
- Up to 2 sensors
- Power distance: up to 500m

Key contacts

Port: I, L, D

Type: Digital Input (Supports NO/NC Dry contact)

Capacity: 1-1000 to 10000 (up to the internal block can be converted to 12V GND)

Max. distance: No restriction

Power input

Power: 0-12V DC

Type: Main device power input (Supports 500mA)

Connector: 2-pin (Green: Vcc, 2-pin (Red: GND)

Physical parameters

Temperature range: Operating: 5 to +50°C (41 to +122°F)
Storage: -20 to +70°C (-4 to +158°F)

Dimensions / Weight: 76x53x28 mm / 100g

IP65

App: App Panel (Web: R.U. ID - EN 15030, EN 15034)

Configuration interface



Differences between Ares 10 vs. Ares 12

3-Wire I/O sensors	Ares 10	Ares 12
External Relay Output compatible	X	✓
Battery	X	✓


Versions and related products



Ares 10 plain (1-Wire I/O, 2-Wire I/O, 3-Wire I/O)
Ares 12 set (Back: Temperature sensor, power supply, USB cable, and I/O cable)
Ares 10 (1-Wire I/O, 2-Wire I/O, 3-Wire I/O)
Expander 4x2-Wire I/O (Expanded with 4x2-Wire I/O and 4-pin I/O)
Converter 2x4-Wire I/O (Expanded with 2x4-Wire I/O and 4-pin I/O)

Front page

double sided



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 railway technology
- Temperature and thermal expansion of structures
- Diesel generators - environment and status monitoring

Key features

- Using regular accessories: 3-Wire & 5-Wire I/O
- RS-485 Modbus
- Up to 2 sensors
- Power distance: up to 500m

Key contacts

Port: I, L, D

Type: Digital Input (Supports NO/NC Dry contact)

Capacity: 1-1000 to 10000 (up to the internal block can be converted to 12V GND)

Max. distance: No restriction

Power input

Power: 0-12V DC

Type: Main device power input (Supports 500mA)

Connector: 2-pin (Green: Vcc, 2-pin (Red: GND)

Physical parameters


Temperature range: Operating: 5 to +50°C (41 to +122°F)
Storage: -20 to +70°C (-4 to +158°F)

Dimensions / Weight: 76x53x28 mm / 100g

IP65

App: App Panel (Web: R.U. ID - EN 15030, EN 15034)


Configuration interface



Differences between Ares 10 vs. Ares 12

3-Wire I/O sensors	Ares 10	Ares 12
External Relay Output compatible	X	✓
Battery	X	✓


Versions and related products



Ares 10 plain (1-Wire I/O, 2-Wire I/O, 3-Wire I/O)
Ares 12 set (Back: Temperature sensor, power supply, USB cable, and I/O cable)
Ares 10 (1-Wire I/O, 2-Wire I/O, 3-Wire I/O)
Expander 4x2-Wire I/O (Expanded with 4x2-Wire I/O and 4-pin I/O)
Converter 2x4-Wire I/O (Expanded with 2x4-Wire I/O and 4-pin I/O)

Back page

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

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

Key features

- Using regular accessories: 3-Wire & 5-Wire I/O
- RS-485 Modbus
- Up to 2 sensors
- Power distance: up to 500m

Key contacts

Port: I, L, D

Type: Digital Input (Supports NO/NC Dry contact)

Capacity: 1-1000 to 10000 (up to the internal block can be converted to 12V GND)

Max. distance: No restriction

Power input

Power: 0-12V DC

Type: Main device power input (Supports 500mA)

Connector: 2-pin (Green: Vcc, 2-pin (Red: GND)

Physical parameters


Temperature range: Operating: 5 to +50°C (41 to +122°F)
Storage: -20 to +70°C (-4 to +158°F)

Dimensions / Weight: 76x53x28 mm / 100g

IP65

App: App Panel (Web: R.U. ID - EN 15030, EN 15034)


Configuration interface



Differences between Ares 12 vs. Ares 10

3-Wire I/O sensors	Ares 12	Ares 10
External Relay Output compatible	✓	X
Battery	✓	X


Versions and related products



Ares 12 plain (1-Wire I/O, 2-Wire I/O, 3-Wire I/O)
Ares 12 set (Back: Temperature sensor, power supply, USB cable, and I/O cable)
Ares 10 (1-Wire I/O, 2-Wire I/O, 3-Wire I/O)
Expander 4x2-Wire I/O (Expanded with 4x2-Wire I/O and 4-pin I/O)
Converter 2x4-Wire I/O (Expanded with 2x4-Wire I/O and 4-pin I/O)

Front page

double sided



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

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

Key features

- Using regular accessories: 3-Wire & 5-Wire I/O
- RS-485 Modbus
- Up to 2 sensors
- Power distance: up to 500m

Key contacts

Port: I, L, D

Type: Digital Input (Supports NO/NC Dry contact)

Capacity: 1-1000 to 10000 (up to the internal block can be converted to 12V GND)

Max. distance: No restriction

Power input

Power: 0-12V DC

Type: Main device power input (Supports 500mA)

Connector: 2-pin (Green: Vcc, 2-pin (Red: GND)

Physical parameters


Temperature range: Operating: 5 to +50°C (41 to +122°F)
Storage: -20 to +70°C (-4 to +158°F)

Dimensions / Weight: 76x53x28 mm / 100g

IP65

App: App Panel (Web: R.U. ID - EN 15030, EN 15034)


Configuration interface



Differences between Ares 12 vs. Ares 10

3-Wire I/O sensors	Ares 12	Ares 10
External Relay Output compatible	✓	X
Battery	✓	X

Versions and related products




Ares 12 plain (1-Wire I/O, 2-Wire I/O, 3-Wire I/O)
Ares 12 set (Back: Temperature sensor, power supply, USB cable, and I/O cable)
Ares 10 (1-Wire I/O, 2-Wire I/O, 3-Wire I/O)
Expander 4x2-Wire I/O (Expanded with 4x2-Wire I/O and 4-pin I/O)
Converter 2x4-Wire I/O (Expanded with 2x4-Wire I/O and 4-pin I/O)

Back page

Flyer A4 (210×297 mm)

Ares 10 LTE



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
- Disal generators - environment and status monitoring

Connect

100 LTE base: 80-100-100-100-100
 MOCA base: 80-100-100
 GSM base: 800-900-900-900 multi-ant class 12

Interface

Class 4 (20-40m - 200m) for GSM900
 Class 1 (20-40m - 200m) for GSM1900
 Class 12 (20-40m - 200m) for GSM1800
 Class 17 (20-40m - 200m) for GSM1700
 Class 2 (20-40m - 200m) for GSM1900
 Class 3 (20-40m - 200m) for GSM1700

Supported protocols

IP, TCP, UDP, HTTP, HTTPS, MQTT, Modbus

Waters

Type: 3-Wire digital, accessories: 3-Wire & 3-Wire cable
 Connector: 3x5 2-Wire Red
 Capacity: Up to 3 sensors
 Sensor distance: Up to 60m

Dry contact inputs

Type: 1-10
 Note: Digital input (requires NO/NC Dry contact)
 Capacity: 1 Dry - 0-200 mA (Pulse on the terminal block can be connected to 250 mA)
 Max. distance: Up to 30m

Power input

Type: 0-20V DC
 Note: Main device power input (max. 500mA)
 Connector: 2-Wire (Red: +V, Black: -V)

Application parameters

Temperature range: Operating: 0 to 60°C (32 to 140°F)
 Storage: -25 to 65°C (-13 to 149°F)
 Humidity: 20% to 90% RH (non-condensing)
 LPS: Class B, IP-65, IP-67, IP-68, EN 60529

Configuration interface

Web: http://ares.hwgroup.com
 FTP: ftp://ares.hwgroup.com
 Telnet: telnet://ares.hwgroup.com
 SSH: ssh://ares.hwgroup.com
 Modbus: Modbus RTU (RS-485)
 XML: XML (HTTP)

Differences between Ares 10 LTE vs. Ares 12 LTE


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

Versions and related products

Ares 10 LTE main: 2x 100mA, 2x 100mA, 2x 100mA
 Ares 10 LTE set: 2x 100mA, 2x 100mA, 2x 100mA
 Ares 12 LTE: 2x 100mA, 2x 100mA, 2x 100mA
 Converter 2x100 10W-10W: 2x 100mA, 2x 100mA, 2x 100mA
 UPS 2V: 2x 100mA, 2x 100mA, 2x 100mA

Front page

double sided



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
- Disal generators - environment and status monitoring

Connect

100 LTE base: 80-100-100-100-100
 MOCA base: 80-100-100
 GSM base: 800-900-900-900 multi-ant class 12

Interface

Class 4 (20-40m - 200m) for GSM900
 Class 1 (20-40m - 200m) for GSM1900
 Class 12 (20-40m - 200m) for GSM1800
 Class 17 (20-40m - 200m) for GSM1700
 Class 2 (20-40m - 200m) for GSM1900
 Class 3 (20-40m - 200m) for GSM1700

Supported protocols

IP, TCP, UDP, HTTP, HTTPS, MQTT, Modbus

Waters

Type: 3-Wire digital, accessories: 3-Wire & 3-Wire cable
 Connector: 3x5 2-Wire Red
 Capacity: Up to 3 sensors
 Sensor distance: Up to 60m

Dry contact inputs

Type: 1-10
 Note: Digital input (requires NO/NC Dry contact)
 Capacity: 1 Dry - 0-200 mA (Pulse on the terminal block can be connected to 250 mA)
 Max. distance: Up to 30m

Power input

Type: 0-20V DC
 Note: Main device power input (max. 500mA)
 Connector: 2-Wire (Red: +V, Black: -V)

Application parameters

Temperature range: Operating: 0 to 60°C (32 to 140°F)
 Storage: -25 to 65°C (-13 to 149°F)
 Humidity: 20% to 90% RH (non-condensing)
 LPS: Class B, IP-65, IP-67, IP-68, EN 60529

Configuration interface

Web: http://ares.hwgroup.com
 FTP: ftp://ares.hwgroup.com
 Telnet: telnet://ares.hwgroup.com
 SSH: ssh://ares.hwgroup.com
 Modbus: Modbus RTU (RS-485)
 XML: XML (HTTP)

Differences between Ares 10 LTE vs. Ares 12 LTE


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

Versions and related products

Ares 10 LTE main: 2x 100mA, 2x 100mA, 2x 100mA
 Ares 10 LTE set: 2x 100mA, 2x 100mA, 2x 100mA
 Ares 12 LTE: 2x 100mA, 2x 100mA, 2x 100mA
 Converter 2x100 10W-10W: 2x 100mA, 2x 100mA, 2x 100mA
 UPS 2V: 2x 100mA, 2x 100mA, 2x 100mA

Back page

Ares 12 LTE



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

Connect

100 LTE base: 80-100-100-100-100
 MOCA base: 80-100-100
 GSM base: 800-900-900-900 multi-ant class 12

Interface

Class 4 (20-40m - 200m) for GSM900
 Class 1 (20-40m - 200m) for GSM1900
 Class 12 (20-40m - 200m) for GSM1800
 Class 17 (20-40m - 200m) for GSM1700
 Class 2 (20-40m - 200m) for GSM1900
 Class 3 (20-40m - 200m) for GSM1700

Supported protocols

IP, TCP, UDP, HTTP, HTTPS, MQTT, Modbus

Waters

Type: 3-Wire digital, accessories: 3-Wire & 3-Wire cable
 Connector: 3x5 2-Wire Red
 Capacity: Up to 3 sensors
 Sensor distance: Up to 60m

Dry contact inputs

Type: 1-10
 Note: Digital input (requires NO/NC Dry contact)
 Capacity: 1 Dry - 0-200 mA (Pulse on the terminal block can be connected to 250 mA)
 Max. distance: Up to 30m

Power input

Type: 0-20V DC
 Note: Main device power input (max. 500mA)
 Connector: 2-Wire (Red: +V, Black: -V)

Application parameters

Temperature range: Operating: 0 to 60°C (32 to 140°F)
 Storage: -25 to 65°C (-13 to 149°F)
 Humidity: 20% to 90% RH (non-condensing)
 LPS: Class B, IP-65, IP-67, IP-68, EN 60529

Configuration interface

Web: http://ares.hwgroup.com
 FTP: ftp://ares.hwgroup.com
 Telnet: telnet://ares.hwgroup.com
 SSH: ssh://ares.hwgroup.com
 Modbus: Modbus RTU (RS-485)
 XML: XML (HTTP)

Differences between Ares 12 LTE vs. Ares 10 LTE


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

Versions and related products

Ares 12 LTE main: 2x 100mA, 2x 100mA, 2x 100mA
 Ares 12 LTE set: 2x 100mA, 2x 100mA, 2x 100mA
 Ares 10 LTE: 2x 100mA, 2x 100mA, 2x 100mA
 Converter 2x100 10W-10W: 2x 100mA, 2x 100mA, 2x 100mA
 UPS 2V: 2x 100mA, 2x 100mA, 2x 100mA

Front page

double sided



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

Connect

100 LTE base: 80-100-100-100-100
 MOCA base: 80-100-100
 GSM base: 800-900-900-900 multi-ant class 12

Interface

Class 4 (20-40m - 200m) for GSM900
 Class 1 (20-40m - 200m) for GSM1900
 Class 12 (20-40m - 200m) for GSM1800
 Class 17 (20-40m - 200m) for GSM1700
 Class 2 (20-40m - 200m) for GSM1900
 Class 3 (20-40m - 200m) for GSM1700

Supported protocols

IP, TCP, UDP, HTTP, HTTPS, MQTT, Modbus

Waters

Type: 3-Wire digital, accessories: 3-Wire & 3-Wire cable
 Connector: 3x5 2-Wire Red
 Capacity: Up to 3 sensors
 Sensor distance: Up to 60m

Dry contact inputs

Type: 1-10
 Note: Digital input (requires NO/NC Dry contact)
 Capacity: 1 Dry - 0-200 mA (Pulse on the terminal block can be connected to 250 mA)
 Max. distance: Up to 30m

Power input

Type: 0-20V DC
 Note: Main device power input (max. 500mA)
 Connector: 2-Wire (Red: +V, Black: -V)

Application parameters

Temperature range: Operating: 0 to 60°C (32 to 140°F)
 Storage: -25 to 65°C (-13 to 149°F)
 Humidity: 20% to 90% RH (non-condensing)
 LPS: Class B, IP-65, IP-67, IP-68, EN 60529

Configuration interface

Web: http://ares.hwgroup.com
 FTP: ftp://ares.hwgroup.com
 Telnet: telnet://ares.hwgroup.com
 SSH: ssh://ares.hwgroup.com
 Modbus: Modbus RTU (RS-485)
 XML: XML (HTTP)

Differences between Ares 12 LTE vs. Ares 10 LTE

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

Versions and related products

Ares 12 LTE main: 2x 100mA, 2x 100mA, 2x 100mA
 Ares 12 LTE set: 2x 100mA, 2x 100mA, 2x 100mA
 Ares 10 LTE: 2x 100mA, 2x 100mA, 2x 100mA
 Converter 2x100 10W-10W: 2x 100mA, 2x 100mA, 2x 100mA
 UPS 2V: 2x 100mA, 2x 100mA, 2x 100mA

Back page

Flyer A4 (210×297 mm)

HWg-SH4

DATA CABINET ACCESS CONTROL

HWgroup access control solutions, when combined with Southco Intelligent Electronic Locks offer audit trails and credential management and enable you to meet today's data protection compliance requirements.

In a world increasingly reliant upon networks and data, never before has there been a greater need for measures which safeguard businesses' physical data infrastructure.

Data cabinet security plays a vital role in helping data centre operators to comply with increasing data security requirements and eliminate the risk of accidental or intentional data breach.

HWgroup and Southco's Cabinet Level Security Solutions respond to this growing need, employing some of the most advanced technologies available to maximise data centre security in the smoothest, most efficient and manageable ways.

Front page

HWgroup access control solution

The SH4 is a Data Cabinet access system that works well with Southco gear motor actuated locks and integrated RFID readers. One door or several hinged racks - the SH4 system provides a cost-effective way to manage access to your technology.

Easy to install. Powerful to use.

- Just plug the SH4 into your Ethernet network, connect Southco locks, RFID readers or keypad and you are done! Or set it up. The SH4 system comes with free software to help you manage everything from one user, many floors, groups and locations.
- In **office mode** the SH4 can work as a monitoring device that helps an internal database of cards and users.
- In **white mode** the device is connected with a server running the HWG-ACS software. The server manages all the access data.
- The relevant part of the entire user database is loaded in each SH4 so that you can still access your technology even if your network connectivity fails.

Southco Data Cabinet Security Solutions

These industry proven intelligent locking solutions are designed to seamlessly integrate with the very latest data protection and monitoring systems and enable a more intelligent and efficient approach to rack level security within the data centre environment, offering:

- ✓ Cabinet audit trail capability
- ✓ Remote access control and monitoring
- ✓ Ability to retrofit into any data cabinet
- ✓ Integration into existing security systems

Electronic Locking Swing Handle

- Standard 250mm x 150mm door cut-out
- Gear motor driven remote unlock and lock
- Visual monitoring with multi-colour LED
- Lock and Key Status Outputs for remote monitoring
- Euro profile lock cylinder for manual one-ride
- Biometric fingerprint option

Electronic Locking Swing Handle with Integrated RFID Reader

- Wireless output
- HD 13.56MHz Prox
- Mifare Classic, Plus, Desfire 13.56MHz
- Class A CSN

Electronic Locking Swing Handle with Integrated Dual Frequency RFID Reader

- Wireless output
- HD 125KHz Prox
- EM 125KHz Prox
- Mifare Classic, Plus, Desfire 13.56MHz
- Class A, Class B166
- 13.56MHz

Expanding the SH4 system

You can expand your system with the SH4s and SH4e units. Controlled from an SH4 unit and its RFID keypad, the SH4s and SH4e units are simple access controllers for 1 or 2 locks. You can grow your access system as needed and manage your costs efficiently.

Proven Security Solutions - Any cabinet, any system

Electronic Locking and Retro-fit Kit Solutions for Indoor and Outdoor cabinets

Inner pages

4 pages

About HWgroup

HWgroup is a leading professional monitoring device for over 15 years and manufacturing them in the EU. Our products are protecting important data systems and infrastructures all over the world. HWgroup has a worldwide network of distributors ready to help you with your project.

All our partners are trained to provide you with the best possible scalable solutions that are easy to integrate, cost-effective and local support.

About Southco

Southco's solutions for data cabinets are built from over 70 years of experience in designing and manufacturing engineered access hardware.

Southco's Physical Cabinet-Level Security Hardware extends existing security systems to any cabinet.

Scalable solutions that are easy to integrate, cost-effective and most importantly secure.

We have helped the following companies with their monitoring or access solutions. We would be thrilled if you were the next.

HWgroup s.r.o.
Company registered office
Bumlická 26
Prague, 120 00
Czech Republic
Phone: +420 222 312 218
Fax: +420 222 313 833
Web: www.hw-group.com

Southco Manufacturing Ltd.
Company registered office
Walmley Road
Walmley, WYO 81A,
United Kingdom
Phone: +44 (0) 1953 346722
Fax: +44 (0) 1953 346723
Web: www.southco.com

Back page

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-STZ, STZ2, HW-A4x, S2 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 + 0.0025)
Resolution	0.10
Protection	IP67
Cable length	3m
Calibration	Yes, in 8 points

Front page

double sided

Application examples

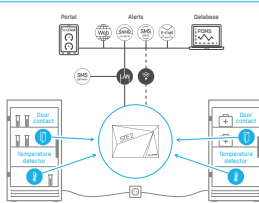
Offering high precision at an affordable price, the Pt1000 sensors are designed for demanding industrial applications, where wide temperature range is critical, data needs to be collected for audits and sensors need to operate in a demanding environment.

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, HW Push and more. HW group devices are also supported by many 3rd party applications and clouds.

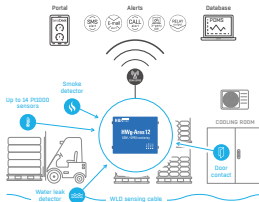
Temperature monitoring in freezers, food storages and medical applications

The STZ2 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 12 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.



HWgroup
HW group s.r.o. | Formanba 236 | Page: 148-150 | Czech Republic | Phone: +420 222 331 918 | www.hw-group.com

Back page

SensDesk



SensDesk
Monitoring and control 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?

- Alerts over Email, SMS and remote outputs**
SensDesk.com will alert you and even trigger a remote output for an on-site alarm.
- Configurable and scalable**
Friendly for users with a few sensors and robust for installations with hundreds of measuring points.
- Groups and Locations**
All your sensors can be started in groups and assigned with locations and sublocations.
- Secure and private**
Your data is yours. We do not use it in any way and we make sure the transfer is secure.
- SensDesk.com is free**
No fees for up to 10 devices (hundreds of sensors). Unlimited accounts available.

APPLICATIONS AND USAGE

-  **IT**
Monitoring of operating conditions in server rooms and data centers
-  **Industry**
Monitoring of critical infrastructure, manufacturing lines and storages
-  **Energy**
Monitoring of technology and power, gas, water and heat consumption
-  **Food industry**
Monitoring of storage and transfer conditions (HACCP)
-  **Pharmaceutical industry**
Monitoring of medicinal material storage and transportation

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 operational 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 an unlimited number of sensors, connected to up to 10 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. | Formanba 236 | Page: 148-150 | Czech Republic | Phone: +420 222 331 918 | www.hw-group.com

Back page

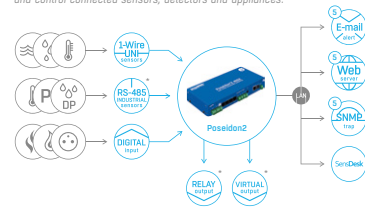
Poster A1 (594×841 mm)

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.



www.hw-group.com

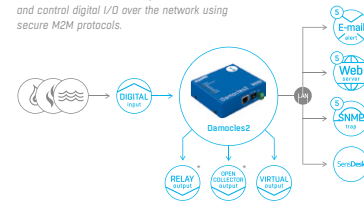
* Depending on the purchase model of the Poseidon2 series.

Damocles2



Damocles2

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



www.hw-group.com

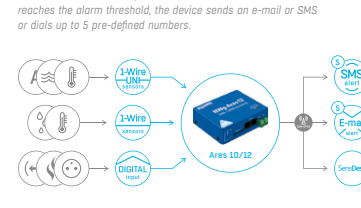
* Depending on the purchase model of the Damocles2 series.

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.



www.hw-group.com

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



www.hw-group.com

Roll-up (850×2000 mm)

Poseidon2

Poseidon2

The Poseidon2 devices connect many servers and a small number of IoT devices (PoE) to the Ethernet or the user can monitor and control connected sensors, detectors and appliances.

HW group s.r.o. is a Czech technological company focused on development, production and distribution of solutions for remote monitoring, alerting and control via LAN, Wi-Fi and 4G/LTE, which assist the latest advances of industrial use. The company is active since 2003 and supplies its products to more than 40 countries worldwide.

Poseidon2 200 | **Poseidon2 205** | **Poseidon2 100** | **205**
100 | **105** | **IP monitoring solutions** | **WiFi 100**

www.hw-group.com

Damocles2

Damocles2

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

HW group s.r.o. is a Czech technological company focused on development, production and distribution of solutions for remote monitoring, alerting and control via LAN, Wi-Fi and 4G/LTE, which assist the latest advances of industrial use. The company is active since 2003 and supplies its products to more than 40 countries worldwide.

Poseidon2 200 | **Poseidon2 205** | **Poseidon2 100** | **Poseidon2 105**
100 | **105** | **IP monitoring solutions** | **WiFi 100**

www.hw-group.com

HWg-Ares10/12

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 calls up to 8 pre-defined numbers.

HW group s.r.o. is a Czech technological company focused on development, production and distribution of solutions for remote monitoring, alerting and control via LAN, Wi-Fi and 4G/LTE, which assist the latest advances of industrial use. The company is active since 2003 and supplies its products to more than 40 countries worldwide.

Poseidon2 200 | **Poseidon2 205** | **Poseidon2 100** | **Poseidon2 105**
100 | **105** | **IP monitoring solutions** | **WiFi 100**

www.hw-group.com

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 inputs / outputs and sensors.

HW group s.r.o. is a Czech technological company focused on development, production and distribution of solutions for remote monitoring, alerting and control via LAN, Wi-Fi and 4G/LTE, which assist the latest advances of industrial use. The company is active since 2003 and supplies its products to more than 40 countries worldwide.

Poseidon2 200 | **Poseidon2 205** | **Poseidon2 100** | **Poseidon2 105**
100 | **105** | **IP monitoring solutions** | **WiFi 100**

www.hw-group.com

IoT platform

HW group IoT platform

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

HW group s.r.o. is a Czech technological company focused on development, production and distribution of solutions for remote monitoring, alerting and control via LAN, Wi-Fi and 4G/LTE, which assist the latest advances of industrial use. The company is active since 2003 and supplies its products to more than 40 countries worldwide.

Poseidon2 200 | **Poseidon2 205** | **Poseidon2 100** | **Poseidon2 105**
100 | **105** | **IP monitoring solutions** | **WiFi 100**

www.hw-group.com

**Thank you for
your attention.**



HW group s.r.o.
Formanská 296, Prague, 149 00
Czech Republic

Phone: +420 222 511 918
E-mail: sales@hwg.cz
www.hw-group.com