



PRODUCT OVERVIEW 2020

Monitoring Access IP Serial

H Ugroup[®]

HW group s. r. o. is a Czech manufacturer of IoT monitoring and remote control solutions. Our top quality products create a full ecosystem, from sensors to monitoring software. All our units are manufactured in the European Union and sold in over 40 countries.

What do we make?

- IoT devices and sensors
- Monitoring and control solutions
- Online portal for IoT sensors
- Monitoring software and SDK
- Access control systems
- IP serial products

What makes us different?

- Rich and modular product ecosystem
- Compatible with many SW solutions and protocols
- Free SDK and Push protocol for 3rd party integration
- 17 years of experience with monitoring devices
- Strict quality control and compliance
- Made in the EU

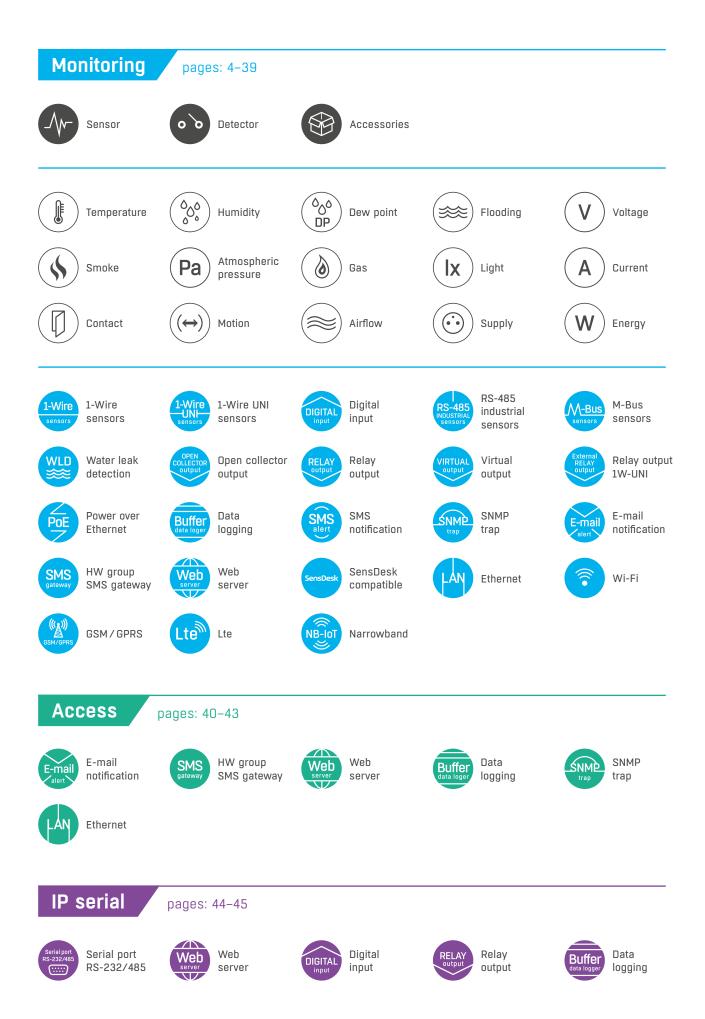
Typical applications

- · Temperature and humidity monitoring
- Water leaks and fire alarms
- Voltage, current, DI and DO monitoring
- Energy consumption metering
- Building management
- Access control and security

References

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



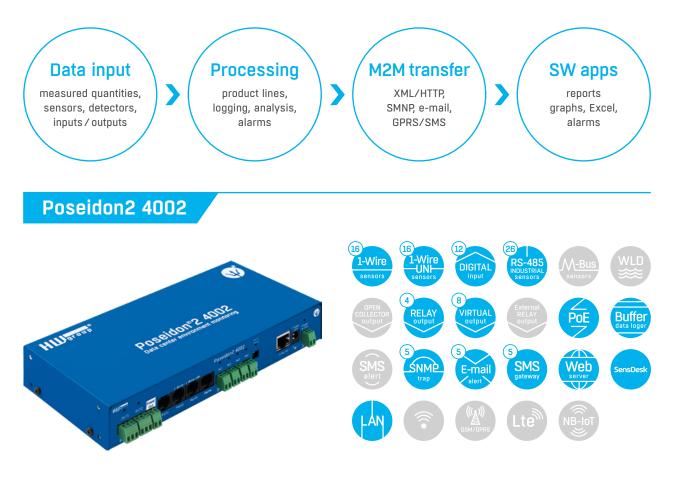


Monitoring

Our portfolio of monitoring and control units with LAN/WiFi/GSM/LTE connectivity offers a complete solution for monitoring your site – from measuring various quantities and watching the status to monitoring energy consumption. In addition to logging and analysis of measured values, immediate actions can be taken – an alarm immediately alerts you to a value out of a specified range.

Our units support a wide range of protocols to facilitate the integration with your existing system and 3rd party software. We offer dozens of types of sensors, detectors and accessories, particularly suitable for the areas mentioned below. We also offer our software, custom-designed to meet our clients' needs. Simply select (or ask for help with selecting) suitable device, sensors and software, easily install and configure them, and let our products do the rest.

Typical industry segments include: IT, electronics, industrial, telco, pharmaceuticals, food, shipping, transport, hotels/accommodation facilities. Our solutions are often deployed in data centers, BTS sites, factories, warehouses or pharmacies.



Secure solution for remote environment monitoring and control of outputs.

Poseidon2 4002 supports up to 16 sensors connected over 1-Wire / 1-Wire UNI, up to 26 sensors connected over RS-485 and up to 12 detectors connected to digital inputs. Poseidon2 4002 can control 4 digital NO/NC relay outputs, as well as up to 8 virtual digital outputs (VDD) at remote Poseidon2 or Damocles2 units (M2M). Poseidon2 4002 can be used as a stand-alone device with e-mail alerts, or as a part of a complex monitoring system with text message (SMS) alerts sent via a central HWg-SMS-GW3 gateway.

Protocols	HTTP, HTTPs, IPv6, MQTT (IoT), SMTP, SNMPv1, SNMPv3, SNMP traps, Modbus/TCP, XML, NetGSM, HWg-PUSH
Software	SensDesk, HWg-PDMS, HWg-Trigger

Poseidon2 3268





Poseidon2 3268 supports up to 8 sensors connected over 1-Wire / 1-Wire UNI and 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 (M2M).

8 1-Wire sensors	8 1-Wire UNI sensors	4 DIGITAL input	RS-485 INDUSTRIAL sensors	M-Bus sensors	WLD
OPEN COLLECTOR output	2 RELAY output	8 VIRTUAL output	External RELAY output	POE	Buffer data loger
SMS alert	5 SNMP trap	5 E-mail alert	5 SMS gateway	Web server	SensDesk
LAN	?	((LA)) GSM/GPRS	Lte	NB-IoT	

Protocols	HTTP, HTTPs, IPv6, MQTT (IoT), SMTP, SNMPv1, SNMPv3, SNMP traps, Modbus/TCP, XML, NetGSM, HWg-PUSH
Software	SensDesk, HWg-PDMS, HWg-Trigger

Poseidon2 3266





Cost-effective model for remote monitoring of sensors and detectors.

Poseidon2 3266 supports up to 8 sensors connected over 1-Wire / 1-Wire UNI and up to 4 detectors connected to digital inputs.

Protocols	HTTP, HTTPs, IPv6, MQTT (IoT), SMTP, SNMPv1, SNMPv3, SNMP traps, Modbus/TCP, XML, NetGSM, HWg-PUSH
Software	SensDesk, HWg-PDMS, HWg-Trigger

Poseidon2 3468





Remote monitoring and control for industrial applications withIn addition230 V / 16 A relay outputs.powered

Poseidon2 3468 supports up to 8 sensors connected over 1-Wire / 1-Wire UNI and up to 4 detectors connected to digital inputs. Poseidon2 3468 can control 2 digital 230 V / 16 A relay outputs, as well as up to 8 virtual digital outputs (VDO) at remote Poseidon2 or Damocles2 units (M2M). In addition to the standard 9-30 V power input, Poseidon2 3468 can be powered from -48 V to enable easy use in Telco solutions.

Protocols	HTTP, HTTPs, IPv6, MQTT (IoT), SMTP, SNMPv1, SNMPv3, SNMP traps, Modbus/TCP, XML, NetGSM, HWg-PUSH
Software	SensDesk, HWg-PDMS, HWg-Trigger

Damocles2 2404





Secure industrial I/O device with PoE and Telco -48 V power.

Damocles2 2404 supports up to 24 detectors connected to digital inputs. In order to connect meters (such as water, gas or electricity meters), all digital inputs feature S0 pulse counters with memory. Damocles2 2404 can control 4 digital NO/NC relay outputs, as well as up to 8 virtual digital outputs (VD0) at remote Poseidon2 or Damocles2 units (M2M). Thanks to 9–30 VDC, -48 V and PoE power options, Damocles2 2404 can be deployed in a wide range of situations.

Protocols	HTTP, HTTPs, IPv6, MQTT (IoT), SMTP, SNMPv1, SNMPv3, SNMP traps, Modbus/TCP, XML, NetGSM, HWg-PUSH
Software	SensDesk, HWg-PDMS, HWg-Trigger

Damocles2 1208





Industrial I/O with enhanced IP security and OC outputs.

Damocles2 1208 supports up to 12 detectors connected to digital inputs. In order to connect meters (such as water, gas or electricity meters), all digital inputs feature SO pulse counters with memory. Damocles2 1208 can control 8 open collector digital outputs, as well as up to 8 virtual digital outputs (VDO) at remote Poseidon2 or Damocles2 units (M2M). Damocles2 1208 is an Ethernet I/O device with enhanced IP security and an excellent cost per I/O pin.

Protocols	HTTP, HTTPs, IPv6, MQTT (IoT), SMTP, SNMPv1, SNMPv3, SNMP traps, Modbus/TCP, XML, NetGSM, HWg-PUSH
Software	SensDesk, HWg-PDMS, HWg-Trigger

Damocles2 MINI





Smart I/O controlled over Ethernet.

Damocles2 MINI supports up to 4 detectors connected to digital inputs. In order to connect meters (such as water, gas or electricity meters), all digital inputs feature SO pulse counters with memory. Damocles2 MINI can control 2 digital NO/NC relay outputs, as well as up to 8 virtual digital outputs (VDO) at remote Poseidon2 or Damocles2 units (M2M). Damocles2 MINI is a compact and cost-effective Ethernet I/O device with enhanced IP security.

Protocols	HTTP, HTTPs, IPv6, MQTT (IoT), SMTP, SNMPv1, SNMPv3, SNMP traps, Modbus/TCP, XML, NetGSM, HWg-PUSH
Software	SensDesk, HWg-PDMS, HWg-Trigger

HWg-Ares12





Industrial measuring and monitoring device for 14 sensors with GSM communication and back-up power.

HWg-Ares12 supports up to 14 sensors connected over 1-Wire / 1-Wire UNI and up to 2 detectors connected to digital inputs. In order to connect meters (such as water, gas or electricity meters), physical digital inputs feature S0 pulse counters with memory. HWg-Ares12 can be extended with a relay output expansion module connected over the 1-Wire UNI bus to allow remote control of other appliances, or to implement a "thermostat" function.

HWg-Ares12 is an industrial device with back-up power for remote monitoring and alerting over GSM from locations without LAN access.

Protocols	HWg-PUSH, NetGSM, SMTP
Software	SensDesk, HWg-PDMS

Ares 12 LTE





Industrial measuring and monitoring for 14 sensors with GSM and LTE communication and back-up power.

Ares 12 LTE supports up to 14 sensors connected over 1-Wire / 1-Wire UNI and up to 2 detectors connected to digital inputs. In order to connect meters (such as water, gas or electricity meters), physical-digital inputs feature SO pulse counters with memory. Ares 12 LTE can be extended with a relay output expansion module connected over the

1-Wire UNI bus to allow remote control of other appliances, or to implement a "thermostat" function. Ares 12 LTE is an industrial device with back-up power for remote monitoring and alerting over GSM from locations without LAN access.

Protocols	HWg-PUSH, NetGSM, SMTP
Software	SensDesk, HWg-PDMS





Cost-effective GSM thermometer with remote management and alerts sent by e-mail, text messages or by dialing a number.

HWg-Ares10 supports up to 3 sensors connected over 1-Wire / 1-Wire UNI and up to 2 detectors connected to digital inputs. In order to connect meters (such as water, gas or electricity meters), the digital inputs feature S0 pulse counters with memory.

HWg-Ares10 is a cost-effective GSM thermometer for remote monitoring

and alerting over GSM for locations without LAN access.

Protocols	HWg-PUSH, NetGSM, SMTP
Software	SensDesk, HWg-PDMS

Ares 10 LTE





Economical GSM and LTE thermometer with remote management and alarm via ringing, SMS and e-mail.

Ares 10 LTE supports up to 3 sensors connected over 1-Wire /1-Wire UNI and up to 2 detectors connected to digital inputs. In order to connect meters (such as water, gas or electricity meters), the digital inputs feature S0 pulse counters with memory. Ares 10 LTE is a cost-effective GSM thermometer for remote monitoring and alerting over GSM for

locations without LAN access.

Protocols	HWg-PUSH, NetGSM, SMTP
Software	SensDesk, HWg-PDMS

STE2





WiFi and Ethernet temperature and humidity sensor with digital inputs.

STE2 (rev. 2) supports up to 3 sensors connected over 1-Wire and up to 2 detectors connected to digital inputs. Whenever a value is out of the specified range or a contact changes state, an e-mail notification is sent. Besides a standard 5 V adapter, STE2 (rev. 2) can be powered over the Ethernet (PoE).

STE2 (rev. 2) is an ideal solution for temperature and humidity monitoring in sensitive environments, with the possibility to connect a wide range of supplemental detectors, such as door contacts, motion detectors, water leak detectors, smoke detectors etc.

Protocols	HTTP, HTTPS, SNMPv1, HWg-PUSH, XML, NetGSM
Software	SensDesk, HWg-PDMS, HWg-Trigger

HWg-STE





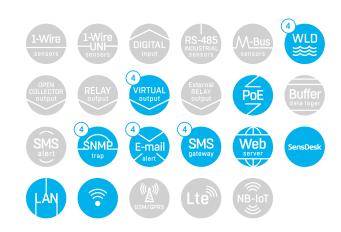
Ethernet temperature and humidity sensor.

HWg-STE supports up to 2 sensors connected over 1-Wire. Whenever a value is out of the specified range, an e-mail notification is sent. The package includes one temperature sensor.

HWg-STE is an ideal solution for temperature and humidity monitoring in sensitive environments.

Protocols	HTTP, SNMPv1, XML
Software	HWg-PDMS





Quadruple water leak detector with Ethernet connectivity and WIFI.

WLD2 is a WiFi/Ethernet flood detector with WWW, SNMP and PoE support, designed for flood detection using flood detection cables. The sensing cable detects as little as a few drops of liquid and can be also used to detect condensation.

Whenever a liquid is detected, the device sends an e-mail or an SNMP

Trap, or uses a central SMS gateway (HWg-SMS-GW3 / SMS-GW3 LTE) to send a text message. By providing early detection and warning, WLD2 can prevent water damage and avoid the associated costs.

Protocols	HTTP, HTTPS, SNMPv1, SNMP traps, XML, NetGSM
Software	SensDesk, HWg-PDMS, HWg-Trigger

HWg-WLD



1-Wire sensors 1-Wire sensors Image: Sensors Sensors Image: Sensors Image: Senso

Water leak detector with Ethernet connectivity that detects water in a 2D area using a sensing cable.

HWg-WLD connects to the Ethernet. The sensing cable detects as little as a few drops of a liquid, and can be also used to detect condensation. Whenever a liquid is detected, the device sends an e-mail or a SNMP Trap, or uses a central SMS gateway (HWg-SMS-GW3 / SMS-GW3 LTE) to send a text message. By providing early detection and warning, HWg-WLD can prevent damages and avoid the associated costs.

Protocols	HTTP, SNMPv1, SNMP trap, XML, NetGSM
Software	HWg-PDMS, HWg-Trigger

IP WatchDog2 Industrial





Industrial watchdog that checks devices for heartbeat over Ethernet and RS-232.

IP WatchDog2 Industrial monitors the correct functioning of devices over LAN (PING / WEB) or serial line (RS-232). When an outage is detected, it reacts by power-cycling or restarting the device using its two output relays. Everything takes place automatically without human intervention. Up to 10 devices can be monitored. An e-mail or SNMP Trap can be also sent in response to an outage. With a SMS gateway, it can even send text message alerts.

Protocols	HTTP, SNMPv1, SNMP trap, HWg-PUSH, XML, NetGSM
Software	SensDesk, HWg-PDMS, HWg-Trigger

IP WatchDog2 Lite





A watchdog that checks devices for heartbeat over Ethernet.

IP WatchDog2 Lite monitors the correct functioning of devices over LAN (PING / WEB). When an outage is detected, it reacts by power-cycling or restarting the device using its two output relays. Everything takes place automatically without human intervention. Up to 10 devices can be monitored. An e-mail or SNMP Trap can be also sent in response to an outage. With a SMS gateway, it can even send text message alerts.

Protocols	HTTP, SNMPv1, SNMP trap, HWg-PUSH, XML, NetGSM
Software	SensDesk, HWg-PDMS, HWg-Trigger



GSM gateway for sending text messages (SMS) over the Ethernet.

HWg-SMS-GW3 is a central text message (SMS) gateway that HWg devices and applications in the same network can use to dial numbers or send SMS alerts. Target phone numbers are specified in the sending device or the HWg-Trigger application.

The central HWg-SMS-GW3 text message gateway significantly saves



costs of external GSM modems, and the entire installation only needs one SIM card.

Protocols	SNMPv1, SNMPv3, XML, NetGSM
Software	HWg-Trigger

SMS-GW3 LTE



SMS-GW3 LTE is a LAN gateway for sending alarm SMS from and the entire in

SMS-GW3 LTE is a central text message (SMS) gateway that HWg devices and applications in the same network can use to dial numbers or send SMS alerts. Target phone numbers are specified in the sending device or the HWg-Trigger application. The central SMS-LTE text message gateway significantly saves costs of external GSM modems,



and the entire installation only needs one SIM card.

Protocols	SNMPv1, SNMPv3, XML, NetGSM
Software	HWg-Trigger

HW group devices.

HWg-PWR 3/12/25



Smart Ethernet device for remote consumption monitoring and collecting data from external M-Bus meters.

HWg-PWR is available in three versions for connecting 3, 12 or 25 external meters with the M-Bus (EN13757) interface. It enables remote monitoring of consumption and other data from a wide range of meters (such as electricity, gas and water meters). Meters from different manufacturers can be combined. When a value is outside of the specified



range, HWg-PWR can send an e-mail alert or a SNMP Trap. With a SMS gateway, it can even send text message alerts.

Protocols	HTTP, SNMPv1, SNMP trap, HWg-PUSH, Modbus/TCP, XML, NetGSM
Software	SensDesk, HWg-PDMS, HWg-Trigger

Sensor WLD Relay 1W-UNI



Water leak detector that detects water in a 2D area using a sensing cable and signals by switching a relay.

Sensor WLD Relay 1W-UNI can work as a stand-alone device, or as a sensor connected to Poseidon2 or HWg-Ares. The sensing cable detects as little as a few drops of a liquid, and can be also used to detect condensation. Whenever a liquid is detected, the device switches the relay, or uses a Poseidon2 or HWg-Ares to send an e-mail



or a SNMP Trap. By providing an early detection and warning, Sensor WLD Relay 1W-UNI can prevent damages and avoid the associated costs even at places without Ethernet connectivity.

Protocols	-
Software	-

	Ethernet/web interface	Wi-Fi	GSM	1-Wire UNI/1-Wire	RS-485	M-Bus	WLD	Digital input (DI)	Digital output (DO)	Virtual DO	E-mail notification	SMS + ring notification	SNMP	SNMP trap	HSU9-PUSH	XML	НТТР	HTTPS	IPv6	М Ң ТТ (ІоТ)	Modbus / TCP	Logger	Telco -48 V	Power over Ethernet (PoE)	LTE
Poseidon2 4002	~			16/16	26			12	4	8	5	5²	V31	5	~	~	~	~	~	~	~	~		~	
Poseidon2 3468	~			8/8				4	2	8	5	5²	v31	5	~	~	~	~	~	~	~	~	~	~	
Poseidon2 3268	~			8/8				4	2	8	5	5²	v31	5	~	~	~	~	~	~	~	~		~	
Poseidon2 3266	~			8/8				4			5	5²	V31	5	~	~	~	~	~	~	~	~		~	
Damocles2 2404	~							24	4	8	5	5²	v31	5	~	~	~	~	~	~	~	~	~	~	
Damocles2 1208	~							12	8	8	5	5²	V31	5	~	~	~	~	~	~	~	~		~	
Damocles2 MINI	~							4	2	8	5	5²	V31	5	~	~	~	~	~	~	~	~		~	
HWg-Ares12			~	14/14				2			5	5			~	~						~			
Ares 12 LTE			~	14/14				2			5	5			~	~						~			~
HWg-Ares10			~	3/3				2			5	5			~	~						~			
Ares 10 LTE			~	3/3				2			5	5			~	~						~			~
STE2	~	~		-/3				2			2	2²	v1		~	~	~							~	
HWg-STE	~			-/2							2		V1			~	~								
WLD2	~	~					4			4	4	4	V1	4	~	~	~	~						~	
HWg-WLD	~						1			1	1	1²	V1	1		~	~							~	
IP WatchDog2 Industrial	~								2	8	2	1²	v1	1	~	~	~					~		~	
IP WatchDog2 Lite	~								2	8	2	1²	V1	1	~	~	~					~		~	
HWg-SMS-GW3	~		~										v1			~	~							~	
SMS-GW3 LTE	~		~										V1			~	~							~	~
HWg-PWR25	~					25		8			3	12	v1	1	~	~	~				~	~			
HWg-PWR12	~					12		8			3	12	v1	1	~	~	~				~	~			
HWg-PWR3	~					3		8			3	12	v1	1	~	~	~				~	~			
Sensor WLD Relay 1W-UNI							1		1																

Monitoring – devices

✔– On request

1 – SNMP v3 contains also v1

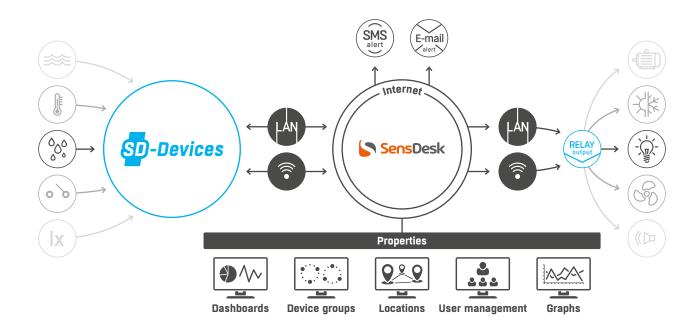
2 – Through HWg-SMS-GW3 or SMS-GW3 LTE



SD devices

The SD family are 4 simple devices for the monitoring of temperature, humidity, voltage, current and other parameters. They also detect water leaks, smoke, movement or open doors. The devices connect via Ethernet or WiFi to the SensDesk.com portal. SD devices are a full, scalable and universal monitoring solution. We offer an ecosystem of 100s of precise sensors and detectors.

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Senses Nor PORTAL BY HW GROUP Power consumption 2: more State	Image: A constraint of the constrai	<complex-block>A construction of the second devices of the</complex-block>	ETITERO				







Simple device for monitoring temperature, humidity. Includes Ethernet and WiFi connectivity.

SD-2x1Wire is a device for connecting thermometers, humidity sensors, or other sensors via the 1-Wire bus. The device allows connecting four sensors with the 1-Wire or 1-Wire UNI bus.

For configuration, SD-2x1Wire features a built-in web server and WiFi connectivity. The device can be monitored remotely over the Internet

Protocols	HTTP, DHCP, SNTP, HWg-Push
Software	SensDesk

using the free SensDesk portal and the SensDeskMobile app.



SD-WLD is a water leak detector with Ethernet and WiFi that detects the presence of water using a sensing cable.

SD-WLD is a simple detector that detects water leaks using a moisturesensing cable. Thanks to early detection and alerting, SD-WLD can prevent substantial damages caused by unexpected adverse environment conditions.

For configuration, SD-WLD features a built-in web server and WiFi



connectivity. The device can be monitored remotely over the Internet using the free SensDesk portal and the SensDeskMobile app.

Protocols	HTTP, DHCP, SNTP, HWg-Push
Software	SensDesk





Simple device with WiFi and Ethernet for monitoring open doors and windows.

SD-2xIn is a device for connecting door or window contacts, PIR motion detectors or smoke or gas detectors with a dry contact output. It allows connecting 2 independent sensors.

For configuration, SD-2xIn features a built-in web server and WiFi connectivity. The device can be monitored remotely over the Internet

Protocols	HTTP, DHCP, SNTP, HWg-Push
Software	SensDesk

using the free SensDesk portal and the SensDeskMobile app.



Simple device with two digital outputs. Includes Ethernet and WiFi connectivity.

The SD-2xOut device features two digital outputs that can be easily controlled using the SensDesk portal.

For configuration, SD-2xOut features a built-in web server and WiFi connectivity. The device can be monitored remotely over the Internet using the free SensDesk portal and the SensDeskMobile app.



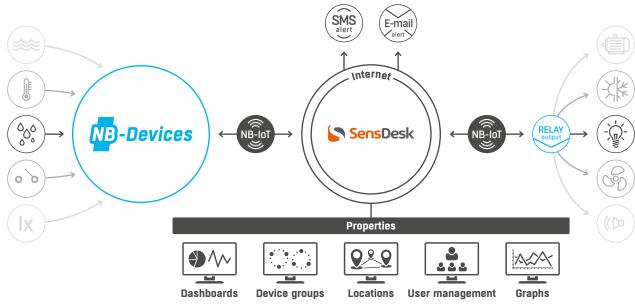
Protocols	HTTP, DHCP, SNTP, HWg-Push
Software	SensDesk



NB devices

The NB family are simple devices for the monitoring of temperature, humidity, water leaks, voltage, current and other values in remote places. The Narrowband IoT devices are battery powered with a battery lifetime of 2 years. The devices connect to the SensDesk.com portal where you can monitor and control your entire system. Your project is set up in just a few clicks and you can get your data in minutes.









A simple device for monitoring temperature, humidity and more in remote places. Narrowband IoT connectivity.

NB-2x1Wire is a device for connecting temperature, humidity or other 1-wire sensors. The device allows connecting four sensors with the 1-Wire or 1-Wire UNI bus. It is powered by an internal battery or external power supply.

The device can be monitored and configured remotely using the

SensDesk portal and the SensDeskMobile app.

Protocols	COAP, DTLS
Software	SensDesk



NB-WLD is a water leak detector with Narrowband IoT connectivity. It uses a very sensitive detection cable.

NB-WLD is a simple device that detects water leaks using a moisturesensing cable. Thanks to early detection and alerting, NB-WLD can prevent substantial damages. It is powered by an internal battery or external power supply.

The device can be monitored and configured remotely using the



SensDesk portal and the SensDeskMobile app.

Protocols	COAP, DTLS
Software	SensDesk





An easy to use device with Narrowband IoT connectivity for monitoring digital inputs in remote places.

NB-2xIn is a device for connecting door contacts, smoke, gas and motion detectors with a dry contact output. It allows connecting 2 independent sensors. It is powered by an internal battery or external power supply. The device can be monitored and configured remotely using the SensDesk portal and the SensDeskMobile app.

Protocols	COAP, DTLS
Software	SensDesk





Narrowband IoT device with two relay outputs, that can control remote technology manually or based on conditions.

The NB-2xOut device features two relay outputs that can be easily controlled using the SensDesk portal. The device can be controlled manually or based on alarms from other devices. It is powered by an internal battery or external power supply.

The device can be monitored and configured remotely using the



SensDesk portal and the SensDeskMobile app.

Protocols	COAP, DTLS
Software	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

160 **

@ 121 ALARM

0 117 INVALID

0 14

SensDesk is easy to setup, just connect your HW group device to the network, create an account and start monitoring!

SensDesk is for end users as well as project installations with hundreds of devices. It can even also be installed on your own servers.

The setup is quick and easy and our sensors can provide data over Ethernet, WiFi, GPRS, LTE or Narrowband IoT.

WHY USE SENSDESK.COM?



Remote monitoring

Temperature, humidity, power consumption, intrusion, water detection and many more...

Event alerts

Get alarms over SMS or e-mail and be sure you can respond to the event in time.



Reports and graphs

Generate automatic reports and access data history with just a click.



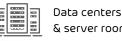
Remote output control

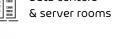
Use conditions to automatically respond to alarms or control outputs manually.

User friendly and reliable

Easy for home users, robust, customizable and scalable for business.

SOLUTIONS FOR YOUR BUSINESS





Warehouses

& storage rooms

Smart cities

& municipal

& house rentals

BTS stations

& technology

Hotels



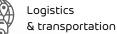
Schools & public buildings

& manufacturing

Industry

H group

SensDesk













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tores & retail



Alert services

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

Remote process control and switching

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



 Note
 Note

User dashboard, groups and locations

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

Quick setup and configuration

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

SensDesk is free

Free users can monitor any number of sensors, connected to up to 3 HW group devices. If you need to connect more devices, paid accounts are available.

You can also buy your own dedicated SensDesk and run it as a virtual image on your own server.

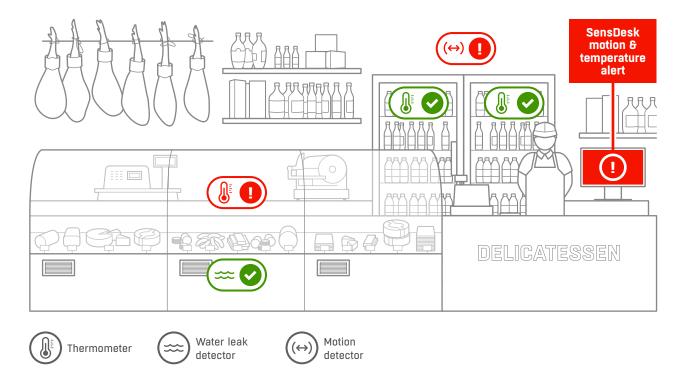


SensDesk solutions

The SensDesk portal is a universal and robust solution for many applications. You can get an account on www.sensdesk.com or you can buy the portal for yourself.

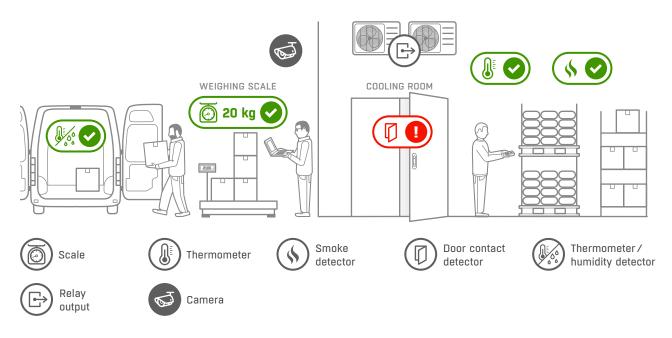
The SensDesk handles all the monitoring you need, but it can also remotely upgrade your devices, identify problems, perform mass operations and manage your entire IoT network. You can always rely on the data, and SensDesk will give you the best tools to analyze what you have measured. When there is a problem, you will always be alerted on time. You can also get periodical reports to make sure you are compliant with regulations.

Stores and retail



Storing food requires precise temperature monitoring, fast alarms and detailed reporting. SD devices with the SensDesk portal help you monitor your refrigerator temperature. The SD-WLD will detect water leaks under the refrigerator. Thanks to the SD-2xIn you receive alarms when unauthorized motion is detected in your store. All your data can be summarized in automated reports and emailed to you regularly.

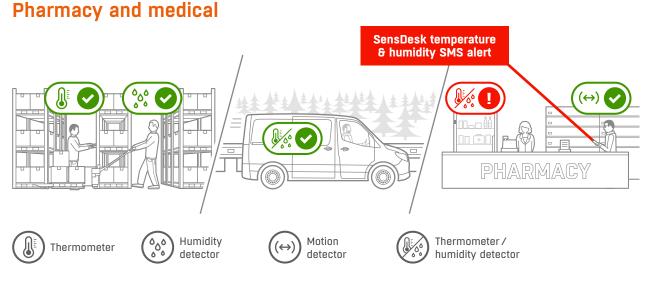
- Temperature and humidity monitoring
- ✓ Water leaks and fire detection
- Motion detection
- ✓ Automatic reports
- Easy installation



Warehouses and storage rooms

Warehouse operators need an efficient way to monitor temperature and humidity in their storage facilities and vehicles. You can also make sure your cargo is within the weight limit. In case of overheating, you can remotely control the air conditioner. Thanks to the SensDesk monitoring portal and HW group IoT devices, your storage facilities will now be safe and compliant to regulations.

- Temperature and humidity monitoring
- \checkmark Water leaks and fire detection
- \checkmark Intrusion detection
- Remote air condition control
- Easy deployment



Pharmacies and medical companies are required to comply with many standards and regulations. With SensDesk you can simply set the safe values of temperature, humidity and other conditions. Then you can receive alarms whenever there is a problem and you can also create reports to confirm that you are complying with regulations.

Temperature and humidity monitoring

- ✓ Precise flat sensors for fridges
- ✓ Wide temperature range down to -200 °C
- Easy installation and setup
- ✓ Scalable for multiple fridges and sites

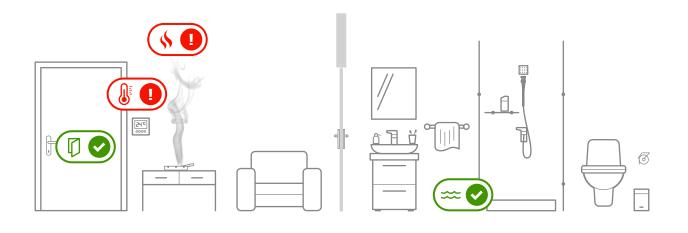
Schools and public buildings

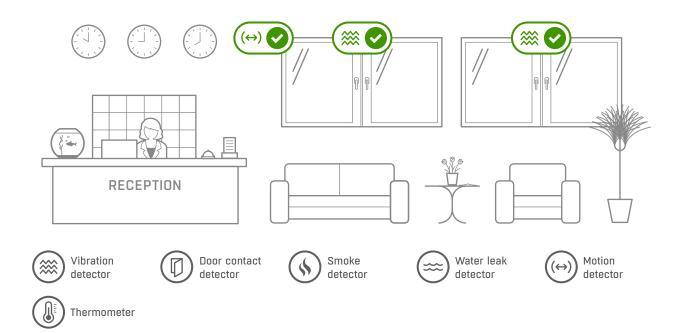


Schools and public need scalable and reliable monitoring, SensDesk helps you manage your IoT sensors' data even for large installations. You can control the temperature and air quality in the rooms remotely, data is also collected and analysed. The system can react to alarm values immediately. Fire and water leaks are serious hazards and our SensDesk IoT solution carefully monitors these values.

- Complex IoT monitoring
- ✓ Hundreds of measuring points
- ✓ Detailed analysis of data, reports
- ✓ Several layers of alarming
- Access control solution available

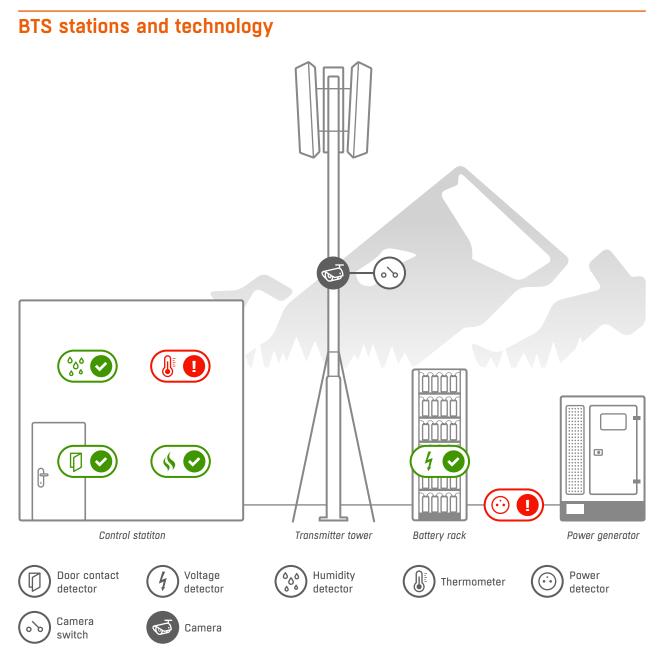
Hotels and house rentals





Water leaks or fires in hotels or house rentals can cause very costly damages. The SensDesk IoT portal helps you watch over all these risk factors. In case of an event it will immediately send out an alarm or react by shutting down water or activating a fire sprinkler. The SensDesk portal and HW group IoT devices have been successfully deployed in a number of solutions for many hotels and house rentals.

- Complex IoT monitoring
- ✓ Hundreds of measuring points
- ✓ Detailed analysis of data, reports
- ✓ Several layers of alarming
- ✓ Access control solution available



Remote technology needs reliable monitoring of cooling, heating, and site conditions. You may also need to monitor your proprietary technology using digital inputs and outputs. SensDesk and HW group IoT sensors can detect A/C failures, water leaks, movement, intrusion and more. SensDesk offers you different user and administration levels and tools for mass operations so it's robust and convenient even for large installations.

- Complex remote monitoring
- ✓ Hundreds of measuring points
- Detailed analysis of data, reports
- Several layers of alarming and users
- Output data to other systems

SD-2x1Wire

Universal monitoring unit with WiFi, Ethernet (PoE). Up to four sensors of temperature, humidity, voltage, current and more...

SD-WLD

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HUgroup

SD-2xIn

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SD-WLD

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SD-2x1Wire

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Water leak detector with WiFi, Ethernet (PoE). Sensitive cable detection with simple installation.



Digital inputs monitoring with WiFi, Ethernet (PoE). Two inputs for door contacts, motion, smoke, water, intrusion or fire detectors.

SD-2xOut

Control two digital outputs over WiFi, Ethernet (PoE). Can be controlled directly or using conditions from the SensDesk portal.

SD-2xOut

HWgroup®

555 555 h

use y mirror_mod.use_z = False elif _operation == "MIRROR_Z": mirror_mod.use_x = False mirror_mod.use_y = False mirror_mod.use_z = True

a ano.contex

#selection at the end -add back the deselected mirro mirror_ob.select= 1 modifier_ob.select=1 bpy.context.scene.objects.active = modifier_ob print("Selected" + str(modifier_ob)) # modifier ob is th Emirror_ob.select = 0

Software

HW group units are not only dependent on the portal, you can get other software too or use your own.

Our devices are not only compatible with dozens of SNMP monitorings solutions, we can also provide you with our own HWg-Push protocol documentation and you can integrate our devices into your own portal.

HWg-PDMS



Windows application for collecting data from sensors and inputs over LAN and GSM. Export of data in the background.

Data processing and analysis with export to MS Excel. Data are collected by e-mail (e.g. from GSM/GPRS devices), LAN or Portal. Periodic or manual data export. Supported values: kWh, W, A, V, °C/°F, Cos Fi, Lx, %RH.

License type:

Freeware – max. 3 sensors HWg-PDMS 8 – (up to 8 sensors) HWg-PDMS 20 – (up to 20 sensors) HWg-PDMS 200 – (up to 200 sensors) HWg-PDMS unlimited

HWg-Trigger



IFTT application for Windows. Values from HW group sensors can trigger different actions.

For example: Display a pop-up window, play a sound, start an application, start a service, shut down the PC. Device Watchdog function, sms alerts.

License type:

30-day trial version free of charge Unrestricted commercial version

HWg-SDK



HWg-SDK is a package of programming examples and APIs for most of HW group products. Various programming languages, Unix, Windows and other programming platforms.

Supported programming languages: C++, Active X, VB, C#, .NET, Borland C++, Microsoft C++, Borland Delphi, JAVA, PHP, AJAX, and more.

Sensors and detectors

HW group offers hundreds of precise sensors and detectors for every application. Our units are also comatible with third party sensors. We do multiple levels of quality and precision testing on all our products to make sure you can rely on our data.

Sensor WLD Relay IW-UNI

Relay Output 1W-UNI

1-Wire

1-Wire

POWE 5V NO3 COM3 NC3 NO4 COM4 NC4

[1][2]

HIUgrout

Hillgroup

E

Expander 4x01 1W-UNI

POWE

A

HILLBrown

1-Wire

Compatibility: Poseidon2, HWg-Ares, STE2, HWg-STE, SD-2x1Wire, NB-2x1Wire



HTemp-1Wire Outdoor 3m Temperature range: -30 to 85°C, humidity range: 0-100% RH



HTemp-1Wire 3m Temperature range: -30 to 80°C, humidity range: 0-100% RH



HTemp-1Wire-Box2 Temperature range: -10 to 80 °C, humidity range: 0-100% RH



Temp-1Wire Rack19 Temperature range: -10 °C to 80 °C. 2 RJ12 connectors



HTemp-1Wire Rack19 Temperature range: -10 to 80 °C, humidity range: 0-100 % RH



Temp-1Wire IP67 Temperature range: -10 to 80°C, IP67 rating, available in 1m, 3m, 10m



Temp-1Wire-Flat 3 m Temperature range: -30 to 60 °C, IP67 rating



1Wire Hub Power 8× 1-Wire or 1-Wire UNI bus expander



Temp-1Wire 3 m calibrated Temperature range: -10 °C to 80 °C, accuracy: 0.3 °C



Temp 1Wire Pt1000 Temperature range: -50 to 200 °C, IP67 rating



Humid-1Wire Humidity range: 0-100% RH, accuracy: 5% RH, available in 1m, 3m, 10m



Temp 1Wire Pt1000 Frost Temperature range: -200 to 160°C, IP67 rating

1-Wire UNI



Sensor 0-20 mA 1W-UNI 8-point calibration table, accuracy: ±2%



Compatibility: Poseidon2, HWg-Ares, SD-2x1Wire, NB-2x1Wire

Sensor 4-20 mA 1W-UNI 8-point calibration table, accuracy: ±2%



Light 1Wire-UNI Illuminance: 0-100%, accuracy: ±10%



Sensor WLD Relay 1W-UNI Up to 85 meters of water detection cable



Sensor 230 V AC 1W-UNI Voltage range: 0-250 V AC, accuracy: 5%



Sensor 60V 1W-UNI v2 Voltage range: 0-60V DC, accuracy: 2%



30A Current Probe 1W-UNI 2 Current range: 0-30 A DC, accuracy: 2%



30A DC Current Probe 1W-UNI Current range: 0–30 A DC, accuracy: 2%



100A DC Current Probe 1W-UNI Current range: 0-100 A DC, accuracy: 2%



Temp-1W-UNI Pt100 Frost Temperature range: -190 to 150 °C, Converter 2xPt100 1W-UNI



Temp-1W-UNI Pt100 Cable Temperature range: -50 to 200 °C, Converter 2xPt100 1W-UNI



Converter 2x Pt100 1W-UNI Temperature range: -200 to 850 °C, 8-point calibration table



Expander 4xDI 1W-UNI 4× digital inputs on 3m cable



Expander 4xDI 1W-UNI Industrial 4× digital inputs on 3m cable



Flood detector 1W-UNI 3m 1D water detection, can be fully submerged



Relay Output 1W-UNI 4× relay output, supported only by HWg-Ares12/14 and Ares 12 LTE



Relay Output 1W-UNI Industrial 4× relay output, supported only by HWg-Ares12/14 and Ares 12 LTE



1Wire Hub Power 8× 1-Wire or 1-Wire UNI bus expander



UPS 12 V and 5 V Status info, capacity: 1,3 Ah



UPS 12 V Status info, capacity: 1,3 Ah

Compatibility: HWg-PWR 3/12/25

M-Bus



M-Count 2C 2× pulse input (SO)/M-Bus output



W



Meter 3f ED 310.DB HWG 3× 230 V/400 V, 63 A

Digital Input

Compatibility: Poseidon2, HWg-Ares, Damocles2, STE2, SD-2xIn, NB-2xIn



Door Contact MK4 3 m connection wiring



Flood Detector LD-12 Spot flood detection



Sensor WLD Relay 1W-UNI Up to 85 meters of water detection cable



Power Detector 110/230V voltage, relay output (max. 50V/130V)



PowerEgg2 110/230V single phase, max. load 8A



Gas Leak Detector 2 optional reactions



Vibration Detector SS14 IP23 rating



Motion PIR Detector Recommended installation height: 2.5 m



Optical Smoke Detector FDR26 Covered space: 40 m², max. height 7 m



AirFlow Detector 5101 Wind speed: 1 to 10 m/s, IP67 rating



RS-485 Compatibility: Poseidon2 4002



HTemp-485 T3411 Temperature range: -30 to 80°C, humidity range: 0-100% RH, dew point range: -60 to 80 DP°C



HTemp-485 T3419 Temperature range: -30 to 105°C, humidity range: 0-100% RH, dew point range: -60 to 80 DP°C



HTemp-485 Box2 Temperature range: -10 to 70 °C, humidity range: 0-100% RH





Temp-485-Pt100 Cable3 Temperature range: -10 to 70°C, IP23 rating



Temp-485-Pt100 Frost2 Temperature range: -190 to 150°C, IP53 rating



Temp-485 Box2 Temperature range: -10 to 70°C, IP23 rating



Spider 4× DI contacts or 4× 1-Wire to RS-485 bus



Poseidon S-Hub 8× sensors over RJ45





Probe Pt100 TR125 2 m Temperature range: -190 to 150 °C, IP67 rating



Probe Pt100 TG8 2 m Temperature range: -50 to 200°C, IP67 rating

Access

The SH4 is an ultimate access system that works with any electromagnetic lock and any RFID reader. It will work in your datacenter as well as in your office or even your home. Whether you have one door or several hundred racks, the SH4 system provides a cost effective way to manage access to your technology.

There are many locks and RFID readers on the market. The SH4 already supports the most common models and others can be added upon request. The SH4 features a relay output that can be programmed to mark a door open in a rack row or to trigger an alarm in case of a breach.

HWg-SH4





Main control unit for access control systems, compatible with any RS-232/Wiegand RFID reader and lock.

HWg-SH4 supports 2 independent locks (modules) and 2 RFID readers. The system can be extended over a LAN with up to 16 HWg-SH4e or HWg-SH4s units. HWg-SH4 can work online as well as offline. The HWG-DCD2 central database and control SW is included free of charge.

Protocols	HTTP, SNMPv1, SNMP traps, Modbus/TCP, XML, NetGSM
Software	HWg-DCD2, HWg-DCD2 mobile



Expansion unit for the HW group access control system.

HWg-SH4e is an expansion to the HWg-SH4 main control unit. The HWg-SH4e unit controls 2 additional door locks. Requires a master SH4 control unit.

HWg-SH4s



Expansion unit for the HW group access control system.

HWg-SH4s is an expansion to the HWg-SH4 main control unit. The HWg-SH4s unit controls 1 additional door lock. Requires a master SH4 control unit.

Examples of 3rd party compatible equipment



Electronic locking swinghandle with reader

The H3-EM electronic locking swinghandle can easily accommodate a variety of rack sizes and configurations with its simple, single-hole panel preparation.

- HID SE $^{\otimes}$ card reader that accepts 125 kHz Prox, HID 13.56 MHz iCLASS $^{\otimes}$ and MIFARE $^{\otimes}$ cards
- Efficient gear motor design for low power consumption
- Fits industry standard panel preps
- Integrated sensors for lock and latch status, monitoring and alarm functions
- Biometric fingerprint option



RFID reader

- EM4100 (125 kHz) compatible RFID reader, with keypad
- Wiegand interface
- RJ45 jack for simple installation

• IP67



Electronic rotary latch

- Lightweight, extended housing for added security and tamper resistance
- Accommodates existing control systems
- Integrated connector and snap-on manual override bracket simplify installation



Electronic locking swinghandle

The H3-EM electronic locking swinghandle can easily accommodate a variety of rack sizes and configurations with its simple, single-hole panel preparation.

- Efficient gear motor design for low power consumption
- Fits industry standard panel preps
- Integrated sensors for lock and latch status, monitoring and alarm functions
- Biometric fingerprint option



RFID reader

- 125 kHz and 13.56 MHz RFID reader
- Weather resistant
- Read UID of 125 kHz EM compatible and 13.56 MHz
 ISO 14443A MIFARE, DESFire[®], Ultralight[®] and
 FeliCa format cards



Electronic slide bolts

- Works with a variety of door-mounted mechanical latches
- Electronic signal permits electronic monitoring, remote monitoring, audit trails, alarms

HWg-DCD2



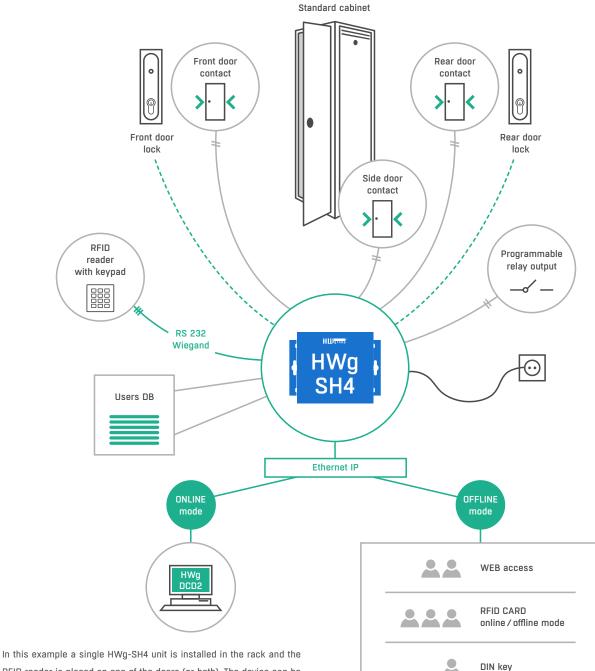
Windows application for access management and database.

Allows doors to be opened remotely with a RFID chip, a SMS message, or on operator's command. Door management takes advantage of a central database with event logging, entry alerting, etc. Access permissions can be differentiated by users or sites and categorized into groups. In addition to data centers, the system is suitable for all premises where access to individual boxes, sections etc. must be controlled and authorized.

• License: the software is FREE OF CHARGE

Using the SH4 system for access control

The SH4 system can be used with any electromagnetic lock and any RFID reader. It is not only optimal for new projects but can also be retrofitted to existing installations. This page will show you how you can use and expand the system.

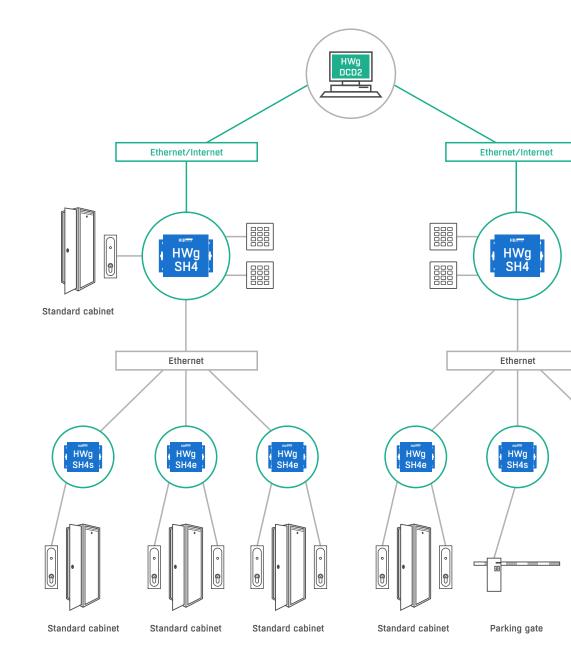


In this example a single HWg-SH4 unit is installed in the rack and the RFID reader is placed on one of the doors (or both). The device can be used in online or offline mode.

In *offline mode* the SH4 can work as a standalone device that holds an internal database of cards and users. You just need the Ethernet port to setup the unit and the device will follow the access rules without the need for LAN connection. In *online mode* the device is connected with a server running the HWg-DCD software. This server manages all the access rules. 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.

HWg SH4s

Door



You can expand your system with the SH4e and SH4s units. These door unlockers are controlled from a supervising SH4 unit and its RFID keypad. They are connected over IP and can expand your system to unlock more points from a single RFID keypad. This significantly lowers the implementations costs. You can install a keypad RFID reader and use it to select the door, or you can setup the access rules so that each door with access right swill open automatically. With keypad 2FA is also supported.

Features:

- Easy installation and management
- Scalable from one lock to hundreds
- Complex free management SW
- Online / offline mode
- SNMP for easy integration in your monitoring system
- SMS alarming in case of an unauthorized entry attempt

Benefits

- Security and unauthorized access prevention
- Complex log history with detailed information
- Provides information about visitor location
- · Access rights can be granted and revoked instantly
- Early alarming to security management
- Evidence in case of a security issue

Usage

- Datacenters and racks
- Offices and residential buildings
- Technological rooms
- Commercial spaces
- Gates and parking lots
- Schools and public spaces

IP serial

IP Serial devices convert a full (9-pin) RS-232/485 serial port to Ethernet and vice versa. The serial port of the device can be connected to a PC over a LAN and accessed in Windows as a Virtual Serial Port (VSP). Digital inputs and outputs of the device can be controlled over the Web or using Modbus/TCP or NVT/Telnet. Two IP Serial devices can connect to each other (Box-2-Box mode) in order to tunnel serial communication and I/O, or up to 8 devices can be connected to transfer I/O signals.

Typical applications include:

- Connecting RS-232 devices to a LAN barcode / RFID scanners, serial printers, displays
- Remote control of power supplies, gates, horns and other equipment over RS-232 and RS-485
- Connecting buttons / switches to a SW application





PortStore5 is a RS-232 and RS-485 serial port to Ethernet converter with internal memory.

The RS-232 port of PortStore5 can be simultaneously used for data capture (CDR/SMDR, PBX call accounting) and for remote access (virtual serial port). With the freeware PS Eye application, data from the PortStore5 can be saved as txt files for further processing.

Serial port RS-232	1× full serial port (9 pin: RxD, TxD, GND, CTS, RTS, DSR, DTR, RI, CD)
Serial port RS-485	Max. 115.200 Bd

I/O Controller 2





I/O Controller2 converts a serial port, digital inputs and digital outputs to Ethernet.

Two units can connect to each other over a LAN (Box-2-Box mode); 8 digital inputs and 8 digital (open collector) outputs can be controlled over the Web or using Modbus/TCP. With the freeware HWVSP3 application, up to 100 remote serial ports can be connected to a single PC.

Serial port RS-232	1× full serial port (9 pin: RxD, TxD, GND, CTS, RTS, DSR, DTR, RI, CD)
Serial port RS-485	Max. 115.200 Bd

IP Relay HWg-ER02b





IP Relay HWg-ER02b connects a full RS-232/485 serial port as well as two digital (binary) inputs and two digital outputs to the Ethernet.

IP Relay HWg-ER02b connects a full RS-232/485 serial port as well as two digital (binary) inputs and two digital outputs to the Ethernet. The digital inputs and outputs can be controlled over the Web or via Modbus/TCP. IP Relay is fully certified to control 110/230V and fits on a DIN rail.

	Web interface	Digital input	Relay output	Modbus / TCP	Logger	NVT	Telnet
I/O Controller 2	~	~	~	~		~	~
PortStore5	~			~	~	~	~
IP Relay HWg-ER02b	~	~	~	~		~	~

HW VSP3 Virtual serial port

COM3	v (m)	192168.1.42				: [20	
External	NVT Commands Port	2003	-				
SP			LAN				
Status: Deleted Baud: - Bits: -			Statue: Closed				
wity:				VSP:	LAN:	QUEUE:	
apbits:			Rκ	0	0	0	
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Hercules

UDP Setup Setal TCP Client TCP Server UDP Test M	inte la constitución de la				
UDP Setup Senal TDP Clerit TDP Server UDP 1997 M Received data	Aport				
Connecting to 192.148.100.210		TCP			
Connecting to 192.168.100.210 Connected to 192.168.100.210	-	Module IP F	lot.		
NVT: FF FA 2C 32 00 FF FO		192.168.100.210	23		
NUT- FF F3 20 34 00 FF F0					
NVT: FF FA 2C 96 00 FF FO		▼ KeepConnection X	Disconnect		
SVT: FF FA 2C 97 00 FF FO					
SWT: FF FA 2C 32 00 FF FO		TEA authorization			
NVT: FF FA 2C 34 00 FF FO		TEA kay			
NVT: FF FA 2C 32 00 FF FO		1: 01020304 3: 090	4080C		
SVT: FF FA 2C 34 00 FF F0	~	2 05060708 4: 000	E0F10		
Sent data		Authorization code			
		Authorization code			
		6			
	Data I/O pina 17 D0 17 D1 17 D2 17 D 17 D4 17 D5 17 D6 17 D 17 D4 17 D5 17 D6 17 D 18 Invense 17				
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HW VSP3 – Single

HW VSP3 is a software driver that adds a virtual serial port (e.g. COM5) to the operating system and redirects the data from this port via a TCP/IP network to another hardware interface, which is specified by its IP address and port. HW VSP3 supports NT services, Windows 8, Windows 10 and Windows Server 2016.

HW VSP3 – Multi

Supports up to 254 remote serial ports. Works with HW group products only.

Debugging and testing tool for products with a serial port (PortBox, I/O Controller, IP Relay, PortStore).

Includes: UDP setup, Serial (RS-232 terminal), TCP client (telnet), TCP Server, UDP (UDP terminal) and Test (test mode with I/O functions support).

Protocols

HW group monitoring and control units have been designed from the beginning to use the Ethernet. The expanding Internet of Things (IoT) market needs devices that are able to communicate over multiple platforms used in public and private networks. Innovations in our units respond to this need.



1-Wire

Digital bus from the Dallas Semiconductors company. Each sensor has its own unique ID. 60m total length per each active R|11 port.

RS-485

A bus for industrial environments. Sensors can be up to 1000 m away. ASCII-based communication.

M-Bus

M-Bus is designed for data transfer in the area of measurements, HVAC control, as well as gas, water and electricity metering.



IPv6

Successor of IPv4. The protocol extends the address field from 32 to 128 bits. Integrated security and mobility functions.

HTTPs

HTTPs is a secure (encrypted) version of the HTTP communication protocol that is used to display WWW pages.

MQTT

MQTT is a simple way of transferring small volumes of data over a standard TCP/IP network.



SMTP

SMTP (Simple Mail Transfer Protocol) is used to transfer electronic mail (e-mail) messages.



GPRS

A service for connecting mobile devices to the Internet via the GSM mobile network.

SNMP

Simple protocol for exchanging basic system information. Most well-known 3rd party SNMP SW: Nagios, PRTG, Cacti, CapTemp, Zabbix, SolarWinds. **SNTP**

Protocol for synchronizing a device's internal clock with a time server over the Internet. Allows all devices in a network to use the same and accurate time.

netGSM

The netGSM function allows to share one GSM modem connected to one of the devices with other devices in the same network.

HWg-Push

is a protocol for active communication from a device (IP sensor) to a central server. This protocol is used for Sensdesk.com.



TLS

TLS protocol provides for secure communication over the Internet (for WWW, e-mail and other types of data transfer).

Modbus/TCP

is an extension of Modbus RTU protocol. Supported in 3rd party SCADA SW e.g. Wonderware-In Touch, Citect, Siemens-WinCC.

XML

Used to exchange structured data with applications and as a format of configuration files. Available files are XML setup and XML values.

We are looking for distributors

please apply here: www.hw-group.com/distributors-partners



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