www.hw-group.com

Promo materials

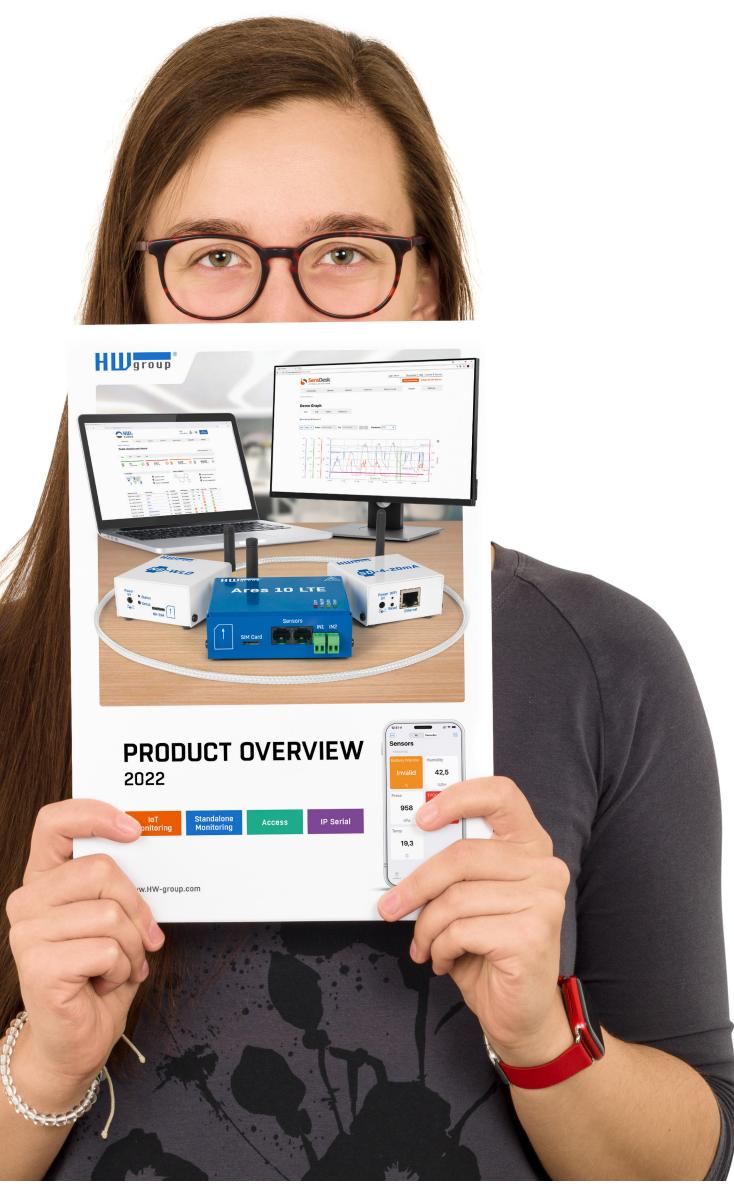


Portfolio

- Overview Catalog
- Flyers
- Posters
- Roll-ups



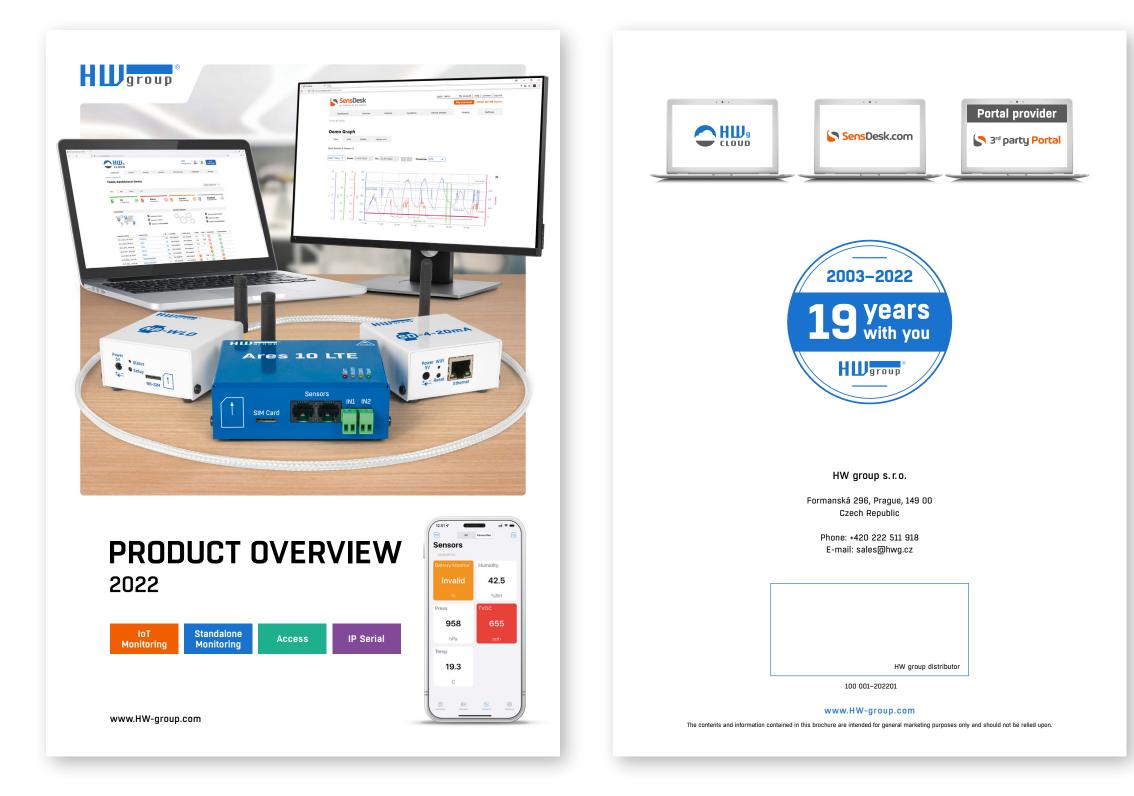






Overview Catalog (210×297 mm)

Product Overview 2022



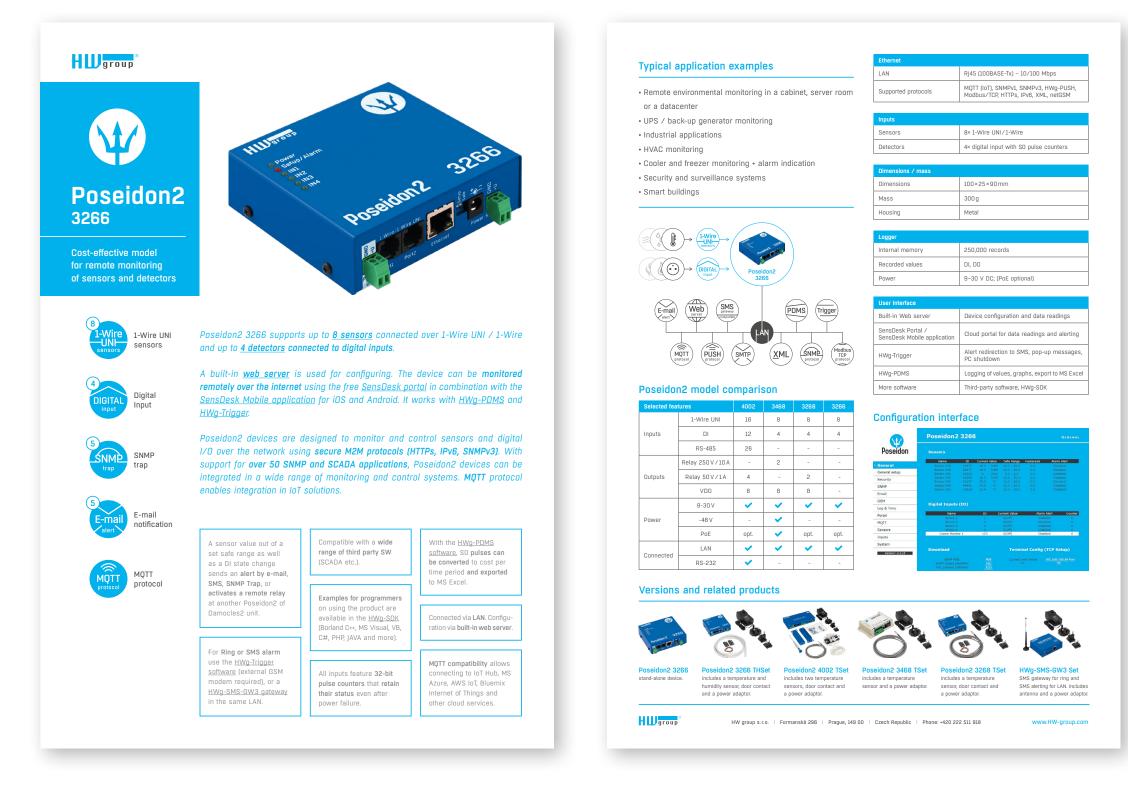
64 pages



Download



Poseidon2 3266



Back page

Front page



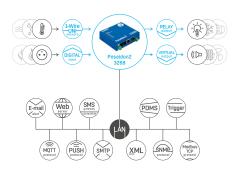
Poseidon2 3268



Front page

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



Poseidon2 model comparison					
Selected fea	tures	4002	3468	3268	3266
	1-Wire UNI	16	8	8	8
Inputs	DI	12	4	4	4
	RS-485	26	-	-	-
	Relay 250 V / 10 A	-	2	-	-
Outputs	Relay 50 V / 1 A	4	-	2	-
	VDO	8	8	8	-
	9-30 V	~	~	~	~
Power	-48 V	-	~	-	-
	PoE	opt.	~	opt.	opt.
Connected	LAN	~	~	~	~
Gonnecteu	RS-232	~	-	-	-

Logger	
Internal memory	250,000 records
Recorded values	DI, DO
Power	9–30 V DC; (PoE optional)
User Interface	
Built in Web conver	Device configuration and data readings

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

Configuration interface

STA.	Poseidon	2 326	8				
Poseidon	Sensors						
	Name	ID	Current Va		Safe Range	Hysteresis	Alarm Alert
General	Sensor 240	26684		*C	10.0 60.0	0.0	Disabled
General setup	Sensor 241	44985					
Security							
SNMP	Digital Input	s (DI)					
Email	Nan	ю	I	þ	Current Va	lue	Alarm Alert
GSM	Binar						
	Binar Binar						
Log & Time	Binar						
Portal	Comm M	onitor 1	12	13	0(Off)		Disabled
мотт							
Sensors	Digital Outpu						
Inputs	Name		1D	Cu	rrent Value		Mode
Outputs	BinOut 1 BinOut 2						
Virtual Outputs	Bandar 2						
System							
	Download					nal Confi	g (TCP Setup)

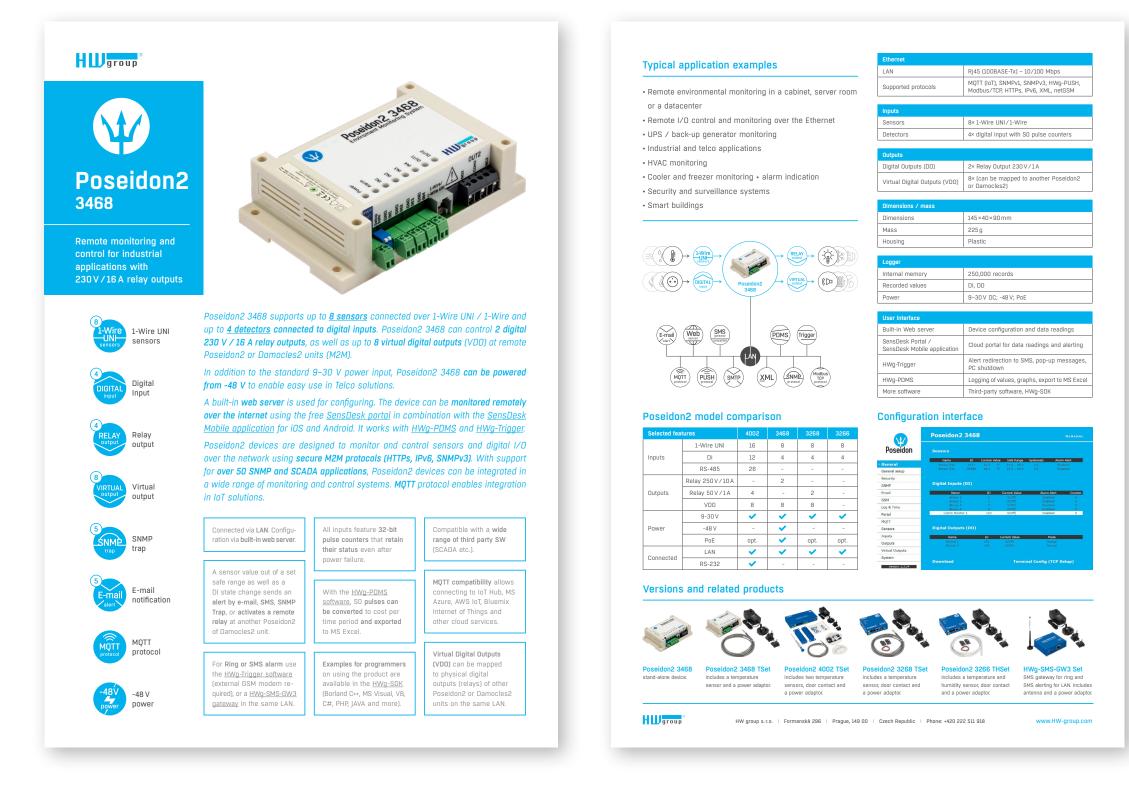
Versions and related products







Poseidon2 3468



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Front page



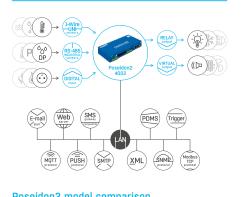
Poseidon2 4002



Front page

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



Selected fea	tures	4002	3468	3268	3266
	1-Wire UNI	16	8	8	8
Inputs	DI	12	4	4	4
	RS-485	26	-	-	-
	Relay 250 V / 10 A	-	2	-	-
Outputs	Relay 50V/1A	4	-	2	-
	VDO	8	8	8	-
	9-30 V	~	~	~	~
Power	-48 V	-	~	-	-
	PoE	opt.	~	opt.	opt.
Connected	LAN	~	~	~	~
connected	RS-232	~	-	-	-

'irtual Digital Outputs (VDO)		8× (can be mapped to another Poseidon2 or Damocles2)		
limensions / n	nass			
limensions		213×35×100 mm		
lass		360 g		
lousing		Metal		
ogger				
nternal memor	γ	250,000 records		
ecorded value	S	DI, DO		
ower		9–30 V DC; (PoE optional)		
Iser Interface				
Juilt-in Web se	erver	Device configuration and data readings		
ensDesk Porta ensDesk Mobi		Cloud portal for data readings and alerting		
IWg-Trigger		Alert redirection to SMS, pop-up messages, PC shutdown		
IWg-PDMS		Logging of values, graphs, export to MS Excel		
lore software		Third-party software, HWg-SDK		
onfiguration interface				
Sta	Poseidon2	4002 GENERAL		
Poseidon	Sensors			

R|45 (100BASE-Tx) - 10/100 Mbp

26× RS-485

4× Relay Output 50 V / 1

Supported protocols

MQTT (IoT), SNMPv1, SNMPv3, HWg-PU Modbus/TCP, HTTPs, IPv6, XML, netGSM

12× digital input with SO pulse counter

		Warsten: 3.2.3	Name	ID Curr	ent Value	Mode
_		System	Digital Outputs (DO)			
	 Image: A second s	Virtual Outputs				
	opt.	Outputs	Binary 12 Comm Monitor 1	12 123	0(0ff) 0(0ff)	Disabled Disabled
_		Inputs	Dinary 11			
	-	Sensors	Binary 9 Binary 10			



Back page

Versions and related products





Damocles2 MINI



Front page



Back page



Damocles2 1208



Front page





Damocles2 2404

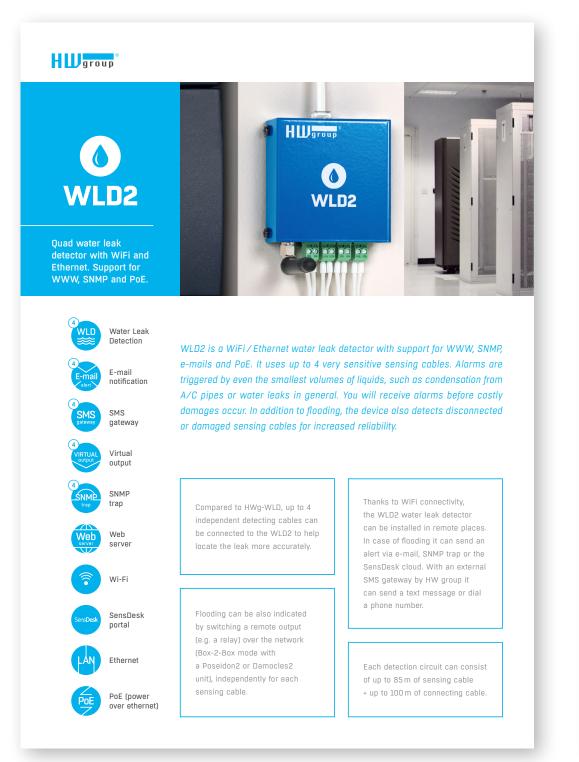


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WLD2

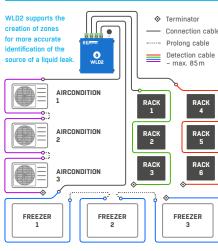


Front page

Typical application examples

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

Detection of water leaks under air-conditioning outlets



111011000	1910 (10, 1000, 102 1)
Supported protocols	IP: ARP, TCP/IP (HTTP, HTTPS, SNTP, SMTP, HWg-Push, netGSM, TLS), UDP/IP (SNMP)
SNMP	Version 1 fully supported, some parts version 2
WiFi	
Supported standards	802.11 b/g/n
Frequency	2,4 GHz
Output	+19.5 dBm output power in 802.11b mode +16 dBm for 802.11n
Security	WEP/WPA/WPA2 PSK/WPA2 TSK/WPS
Antenna	Internal
External sensors	
Number/Connectors	WLD1, WLD2, WLD3, WLD4/terminal blocks
Туре	Moisture sensing cable
Connector	Terminal block
	0 OK 1 Elected 0 Ochladisconstat

0011301 310103		
Sensing cable length	Max. 85 m	
Cable extension	May be extended by at most 100 m, AWG 24	
Power supply		
Power voltage	5V/250mA	
Connector	Jack Ø3.5×1.35/10mm	
POE (Power over Ethernet)	RJ45 - IEEE 802.3af Class 0	

Operating temperature	 -10 to 60 °C (range of device operating temperatures – may not correspond to sensor range) 				
Dimensions/weight	65×80×30 mm/500 g				
Elmag. radiation	CE/FCC Part 15, Class B				
Elmag. compatibility	EN 55022, EN 55024, EN 61000				

Configuration interface

Comparison of HWg-WLD and WLD2

Function	HWg-WLD	WLD2
WLD circuits	1	4
Ethernet	 Image: A set of the set of the	 Image: A set of the set of the
WiFi	×	 Image: A set of the set of the
HTTPs	×	 Image: A start of the start of
External antenna	×	 Image: A start of the start of
TLS	×	 Image: A set of the set of the
SensDesk support	×	 Image: A start of the start of
PoE	×	 Image: A start of the start of
Remote outputs	1	4

 NUMBER
 NUMARE
 NUMARE
 NUMARE<

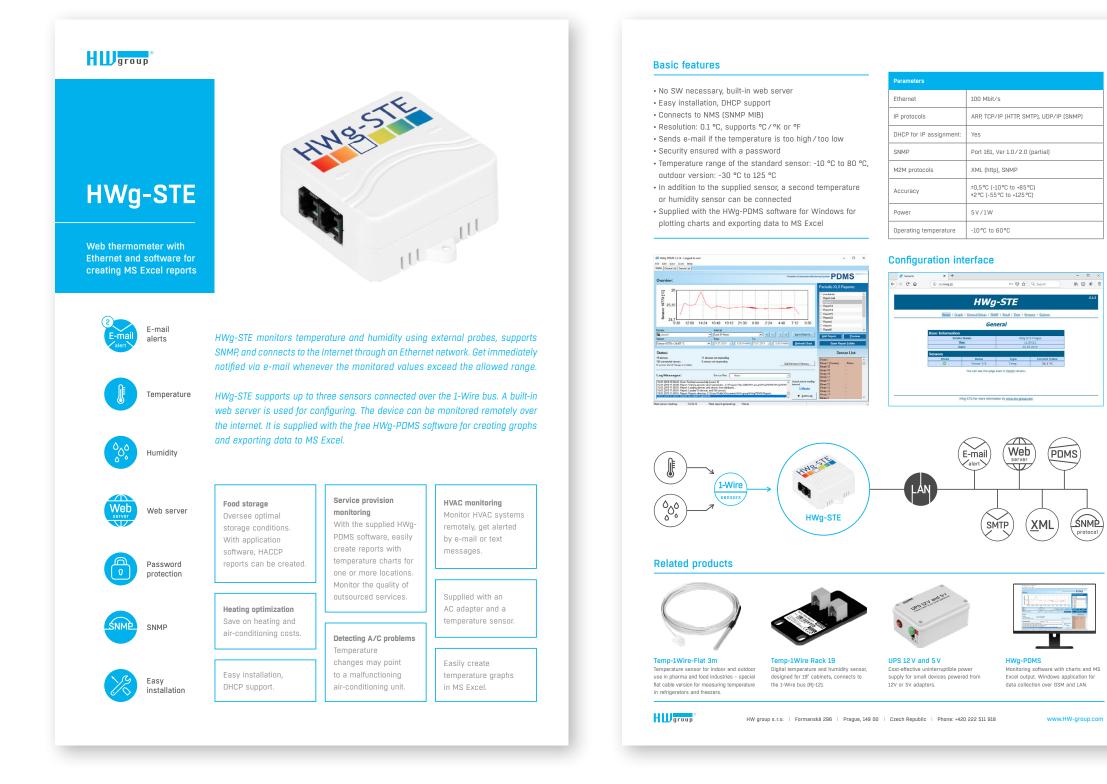
Related products







HWg-STE

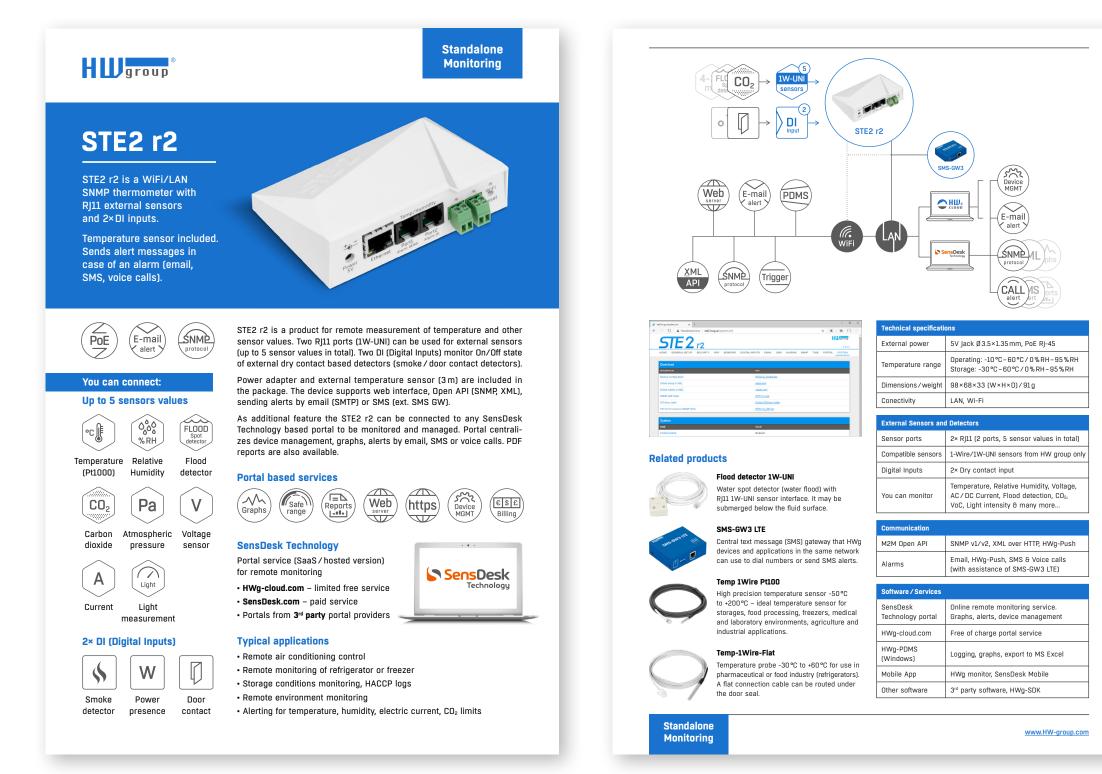


Front page

Back page



STE2 r2

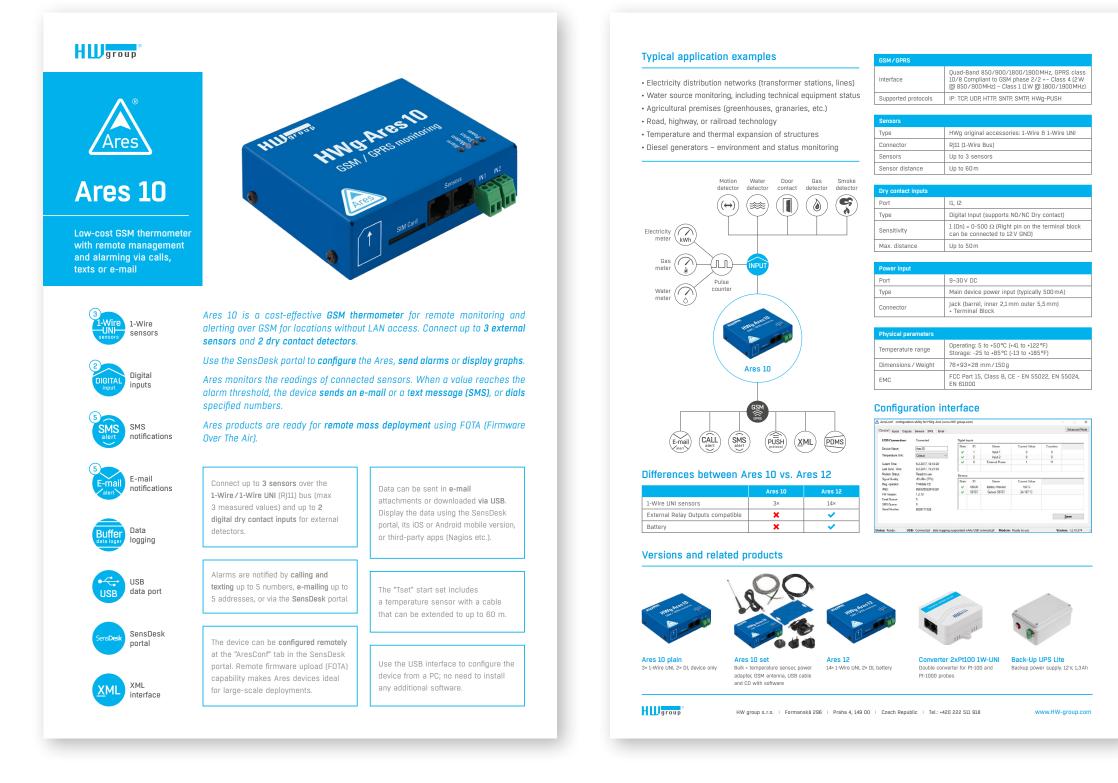


Front page





HWg-Ares 10

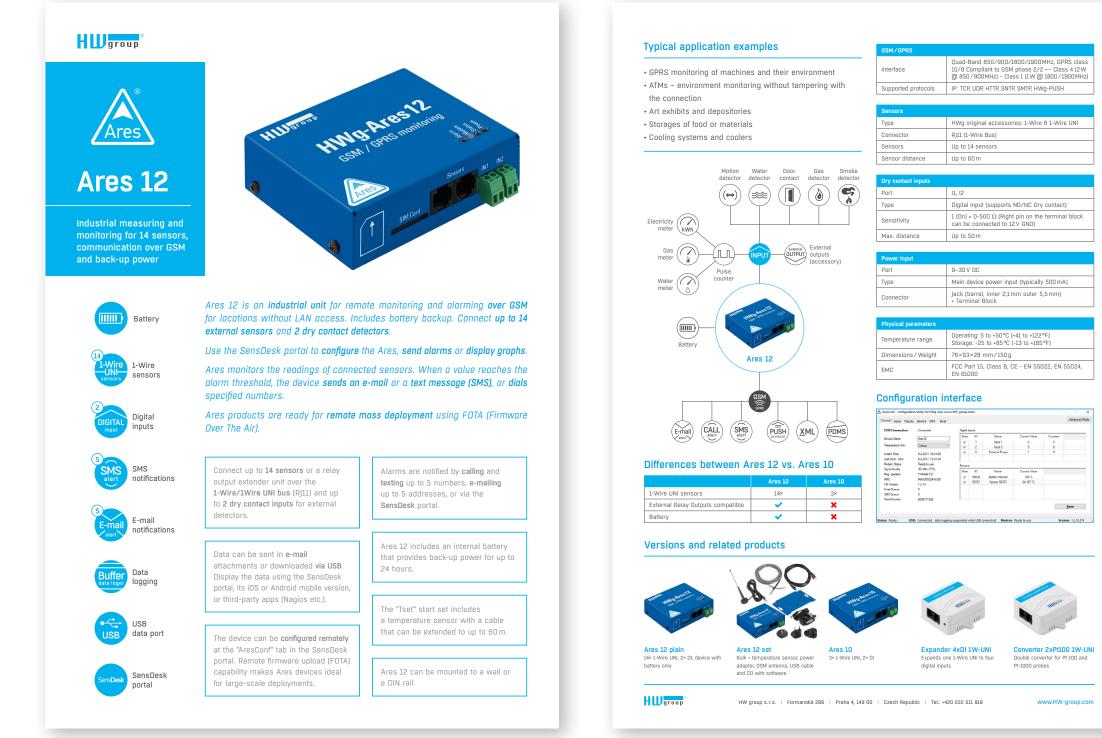


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HWg-Ares 12

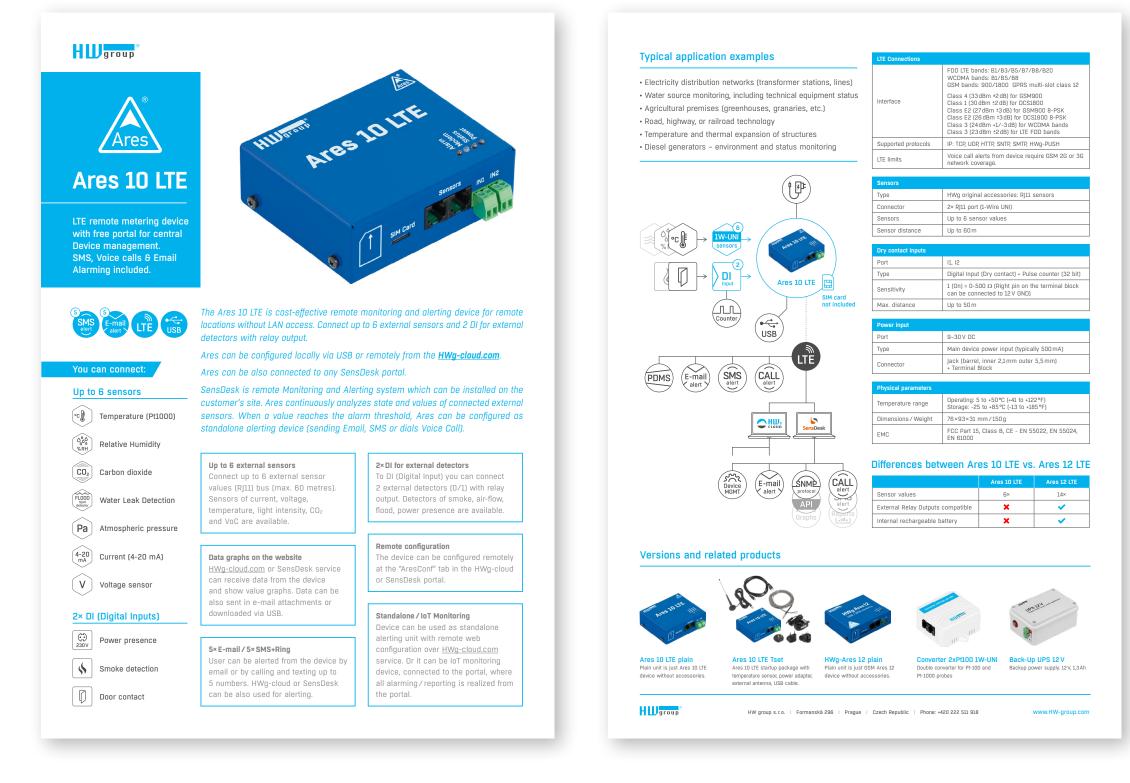


Front page





Ares 10 LTE



Front page

Back page



Ares 12 LTE

H U group



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

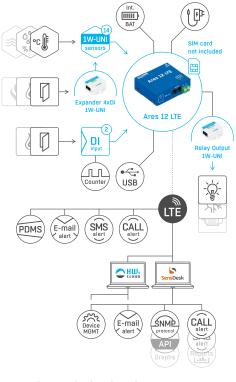
SMS E-mail LTE USB	The Ares 12 LTE is cost-effective remote r locations without LAN access. Connect up t detectors with relay output.				
	Ares can be configured locally via USB or	r remotely from the <u>HWg-cloud.com</u> .			
You can connect:	Ares can be also connected to any Sens	Desk portal.			
Up to 14 sensors	SensDesk is remote Monitoring and Alerting system which can be installed on the				
Temperature (Pt1000)	customer's site. Ares continuously analyz sensors. When a value reaches the alar standalone alerting device (sending Emai	rm threshold, Ares can be configured as			
Relative Humidity					
CO ₂ Carbon dioxide	Up to 14 external sensors Connect up to 14 external sensor	2×DI for external detectors To DI (Digital Input) you can connect 2 external detectors (0/1) with relay			
Floop Sector Veter Leak Detection	values (RJ11) bus (max. 60 metres). Sensors of current, voltage, temperature, light intensity, CO ₂ and VoC are available.	output. Detectors of smoke, air-flow, flood, power presence are available.			
Pa Atmospheric pressure					
4-20 MA Current (4-20 mA)	Data graphs on the website <u>HWg-cloud.com</u> or SensDesk service	Remote configuration The device can be configured remotely at the "AresConf" tab in the HWg-cloud			
V Voltage sensor	can receive data from the device and show value graphs. Data can be also sent in e-mail attachments or	or SensDesk portal.			
2× DI (Digital Inputs)	downloaded via USB.	Standalone / IoT Monitoring			
E30V Power presence	5×E-mail / 5×SMS+Ring alerting unit with User can be alerted from the device by email or by calling and texting up to service. Or it can device, connected	Device can be used as standalone alerting unit with remote web configuration over <u>HWg-cloud.com</u>			
Smoke detection		service. Or it can be loT monitoring device, connected to the portal, where all alarming/reporting is realized from			
Door contact		0 1 0			

Front page

Typical application examples · Electricity distribution networks (transformer stations, lines)

 Water source monitoring, including technical equipment status Agricultural premises (greenhouses, granaries, etc.) • Road, highway, or railroad technology

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



LTE Connections	
	FDD LTE bands: B1/B3/B5/B7/B8/B20 WCDMA bands: B1/B5/B8 GSM bands: 900/1800 GPRS multi-slot class 12
Interface	Class 4 (33 dBm ±2 dB) for GSM900 Class 1 (30 dBm ±2 dB) for GSM900 Class E2 (27 dBm ±3 dB) for GSM900 8-PSK Class E2 (26 dBm ±4 dB) for DCS1800 8-PSK Class 3 (24 dBm ±1/-3 dB) for VCDMA bands Class 3 (23 dBm ±2 dB) for LTE FDD bands
Supported protocols	IP: TCP, UDP, HTTP, SNTP, SMTP, HWg-PUSH
LTE limits	Voice call alerts from device require GSM 2G or 3G network coverage.

Туре	HWg original accessories: RJ11 sensors	
Connector	2× RJ11 port (1-Wire UNI)	
Sensors	Up to 14 sensor values	
Sensor distance	Up to 60 m	
Dry contact inputs		
Port	11, 12	
Туре	Digital Input (Dry contact) + Pulse counter	
Sensitivity	1 (On) = 0-500 Ω (Right pin on the terminal block can be connected to 12 V GND)	
Max. distance	Up to 50 m	
Power input		
Port	9-30 V DC	
Туре	Main device power input (typically 500 mA)	
Connector	Jack (barrel, inner 2,1mm outer 5,5mm) + Terminal Block	
Physical parameters		
Temperature range	Operating: 5 to +50°C (+41 to +122°F) Storage: -25 to +85°C (-13 to +185°F)	
Dimensions / Weight	76×93×31 mm / 150 g	
FMC	FCC Part 15, Class B, CE - EN 55022, EN 55024, EN 61000	

Differences between Ares 12 vs. Ares 10

	Ares 12	Ares 10
Sensor values	14×	6×
External Relay Outputs compatible	~	×
Internal rechargeable battery	 Image: A second s	×

Versions and related products







HWg-SMS-GW3



Front page

Features

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

LAN

HWg devices

Web server server

Trigger SensDesk

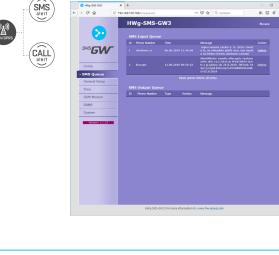
Versions and related products

...... STE2 r2

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

SMS queue memory 100 messages

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





Back page



SMS-GW3 LTE



Front page

- · No software needed for sending SMS alarms. Works in the
- · Compatible devices: HWg-PWR 3/12/25, HWg-WLD,
- Compatible software: HWg-DCD2, HWg-Trigger, Nagios.
- SMS recipients (phone numbers) are set in the devices (software). A single SMS-GW3 LTE unit can then send
- · An external antenna can resolve problems in locations with
- · Examples of product usage for programmers are available in the HWg-SDK (Borland C++ Builder, MS Visual C, VB,



SMS queue memory	100 messages
Parameters Power	9-15 V / 0,4 A
Dimensions	92×76×31 mm
Environment	From -10 °C to +65 °C (from +14 °F to +149 °F)
Supported SW	HWg-PDMS, HWg-Trigger
oupported ovv	inng i bilo, ning inggoi
S HWp-SME OW1 X +	×



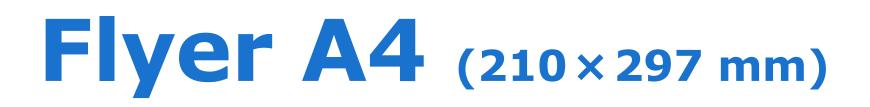




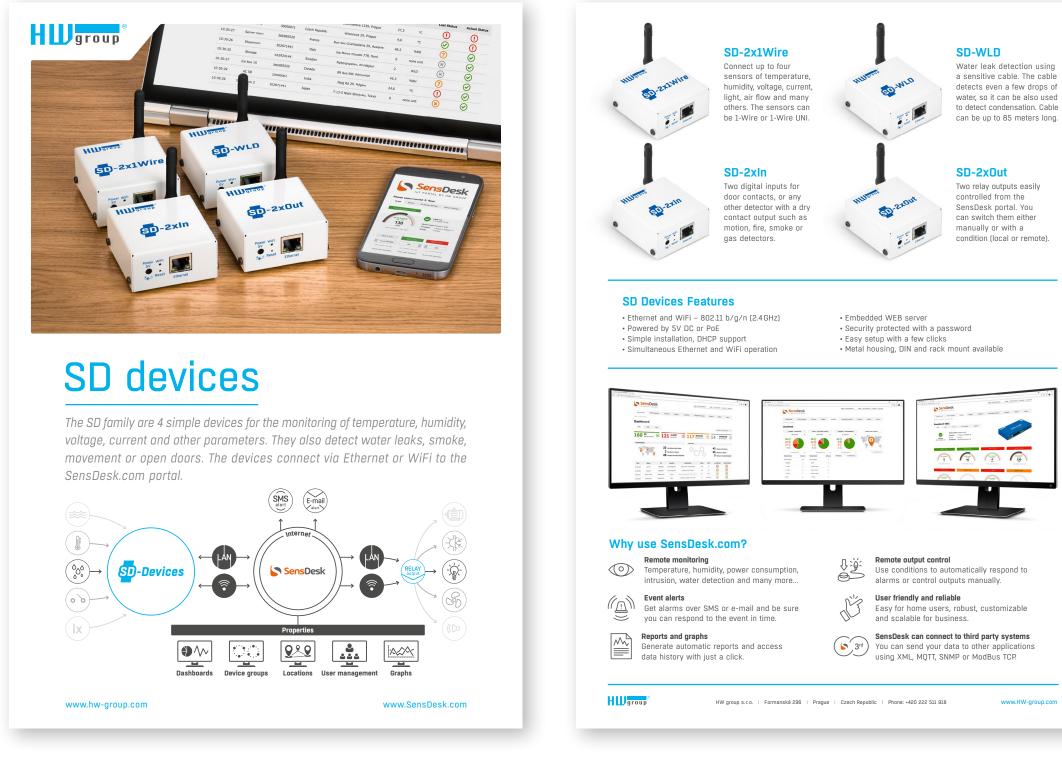
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SD devices



Front page



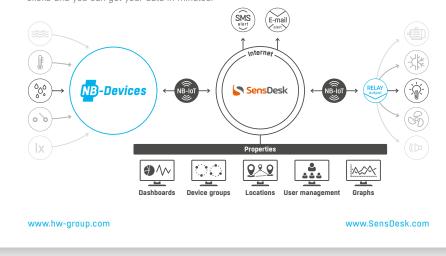


NB devices

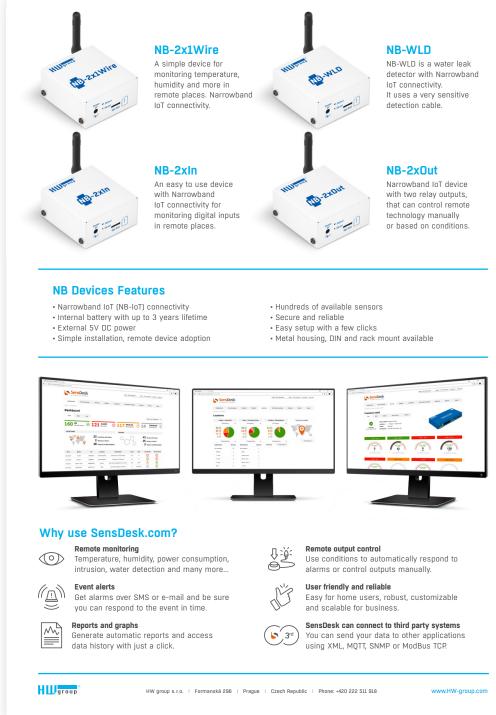


NB IoT devices

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 up to 3 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.



Front page





HWg-SH4



DATA CABINET ACCESS CONTROL



HW group access control solutions, when combined with Southco igent electronic locks offer audit trail and credential management and enable you to meet today's data protection compliance requirements.

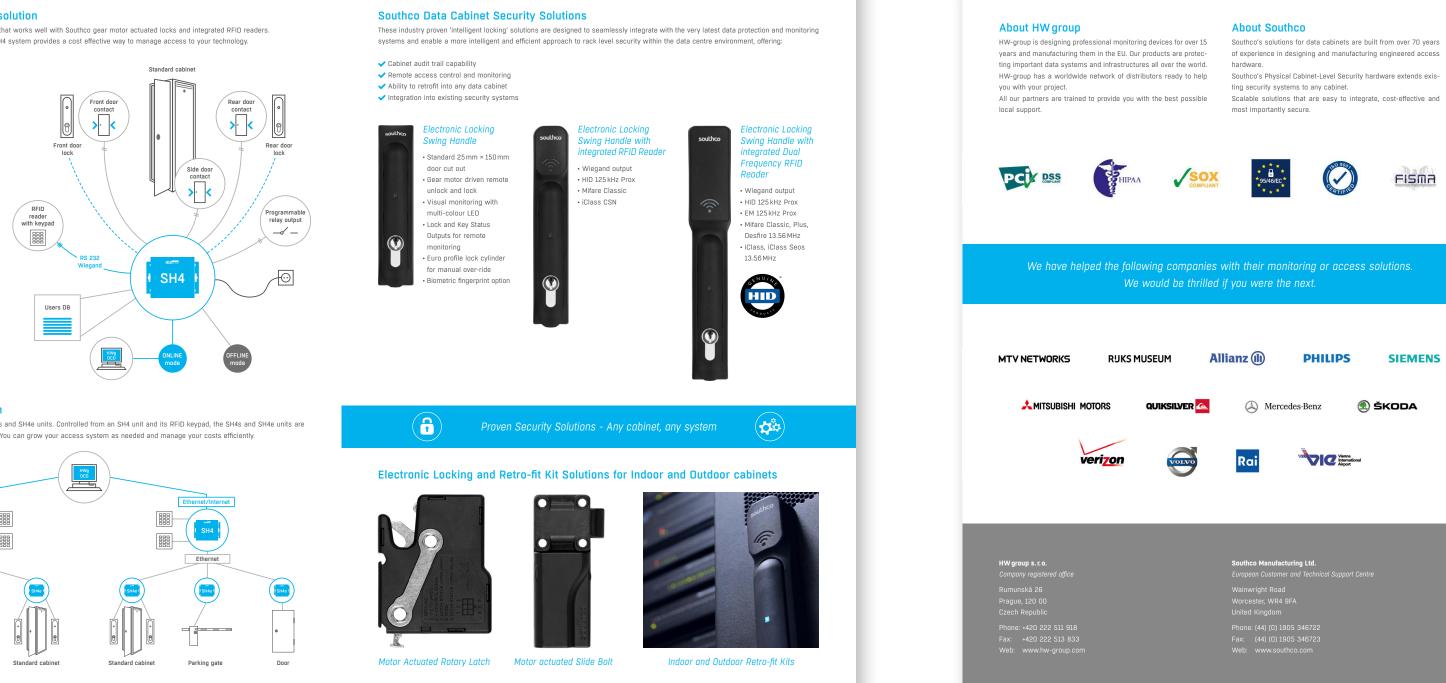
In a world increasingly reliant upon networks and data, never before has there been a greater need for measures which safeguard businesses' physical data infrastructure.

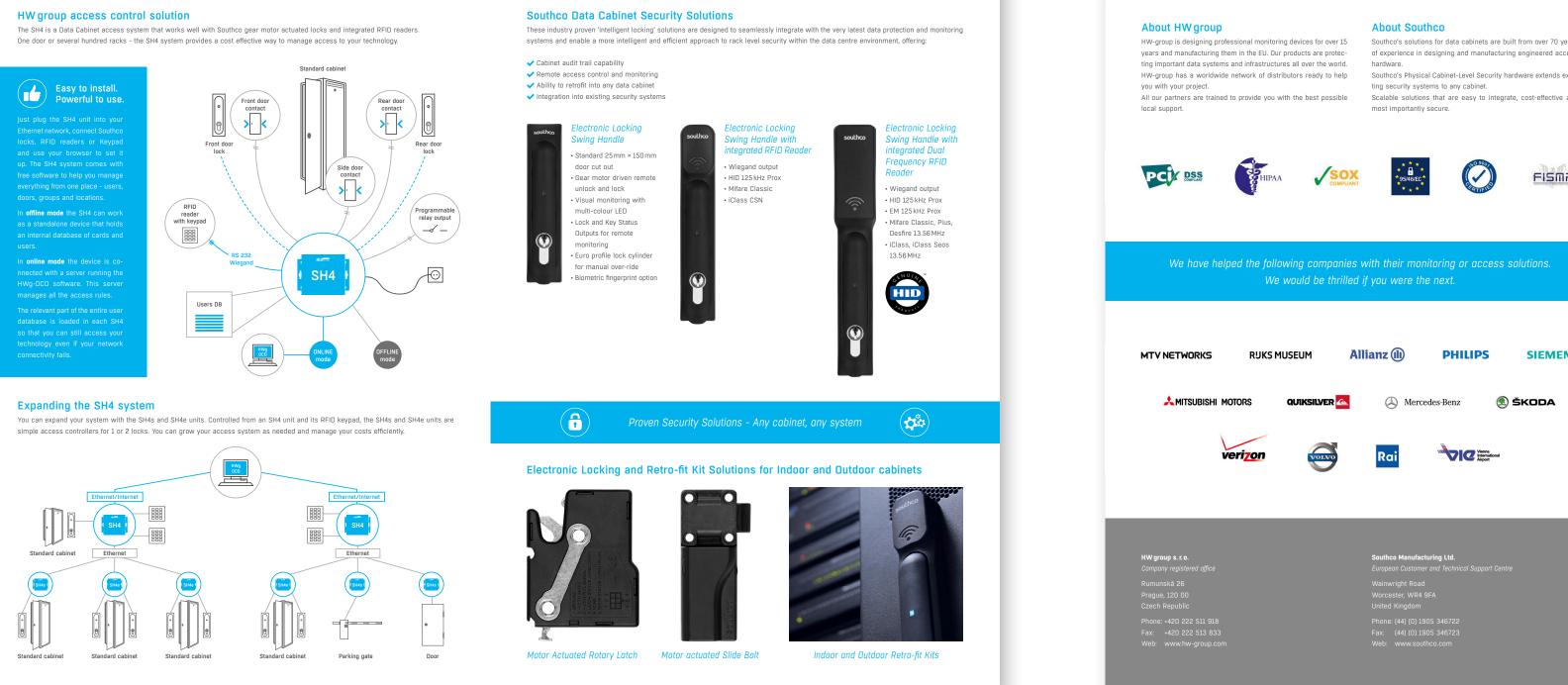
Data cabinet security plays a vital role in helping data centre operators to comply with increasing data security requirements and eliminate the risk of accidental or intentional data breach. HW group and Southco's Cabinet Level Security Solutions respond to this growing need, employing some of the most advanced technologies available to maximise data centre security in the smoothest, most efficient and manageable ways.

Front page



nected with a server running th IWg-DCD software. This serve





Inner pages







Temp 1Wire Pt1000



Front page

Application examples

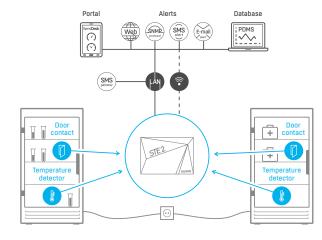
Offering high precision at an affordable price, the Pt1000 sensors are designed for demanding industrial applications, where wide temperature range is critical, data needs to be collected for audits and sensors need to operate in a demanding environment

Temperature monitoring in freezers, food storages and medical applications

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

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

Setting up the HW group system takes just For more advanced applications we offer units with wide range of M2M protocols including SNMP, Modbus TCP, MQTT, XML HWg Push and more. HW group devices are also supported by many 3rd party applications and clouds.



SensDesk SMS Shert Crail Call Service Control Call Service

group

HW group s.r.o. | Formanská 296 | Prague | 149 00 | Czech Republic | Phone: +420 222 511 918

Back page



SensDesk



Alert services

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

Remote process control and switching

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





User dashboard, groups and locations ensDesk provides tools for customizing the user nterface. Users can define names of their sensors evices and locations. You can also use group related nonitoring and control. If you have 1 sensor or 1000 lownloaded from the portal in many formats, including

i 🕹 i 🚺 😲

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.

The SensDesk portal is provided in software as a service (SAAs) mode by HW group. Commetcution of Species of the Www.HW-group.com HW group s.r.o. | Formanská 296 | Prague, 149 00 | Czech Republic | Phone: +420 222 511 918 www.HW-group.com

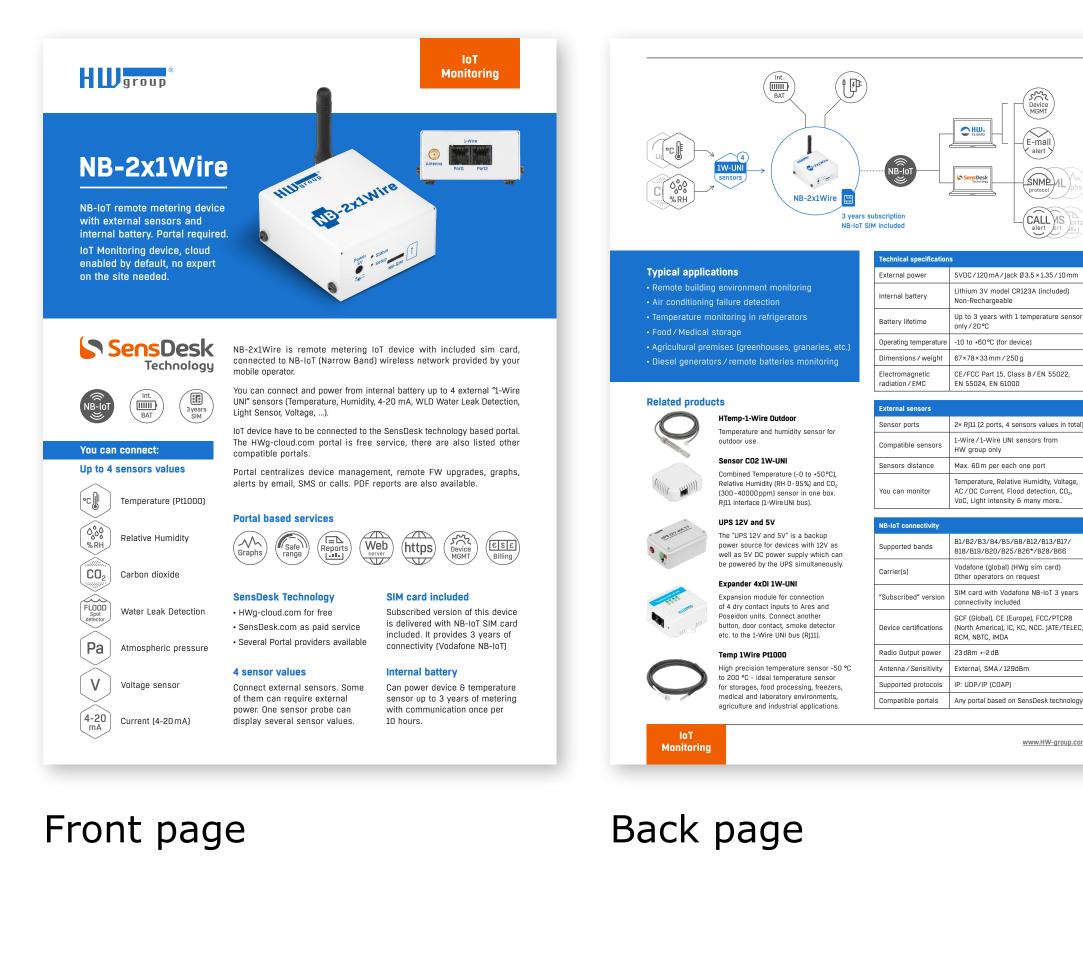
SensDesk

Front page





NB-2x1Wire





Download all flyers from our website

CALL

www.HW-group.com



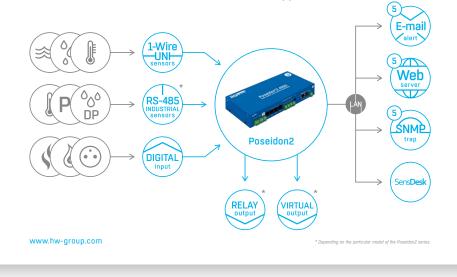
Poster A1 (594×841 mm)

Poseidon2



Poseidon2

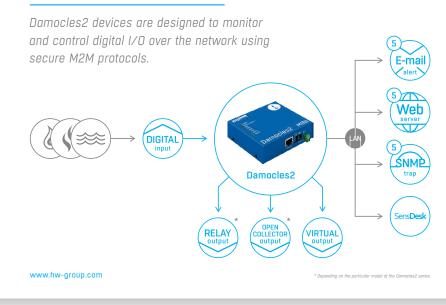
The Poseidon2 devices connect mainly sensors and a small number of I/O (Inputs / Outputs) to the Ethernet so the user can monitor and control connected sensors, detectors and appliances.



Damocles2



Damocles2



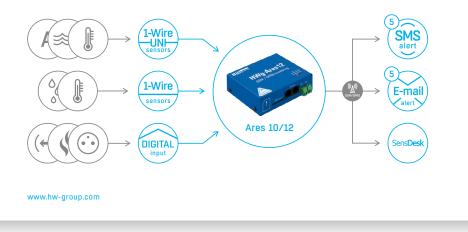


HWg-Ares 10/12



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.

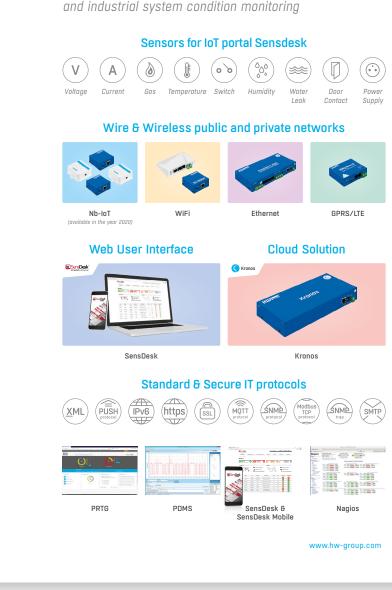


HW group IoT platform

H U group®

HW group IoT platform

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







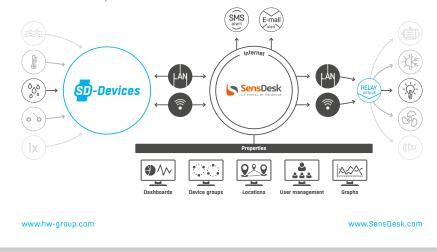
Poster A1 (594×841 mm)

SD devices



SD devices

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











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Roll-up (850 × 2000 mm)

Poseidon2

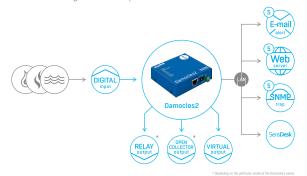


Damocles2

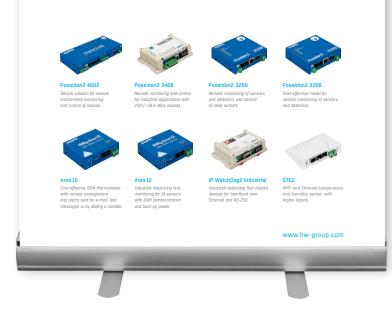


Damocles2

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



of solutions for remote monitoring, alerting and control via LAN, WiFi and GSM, which match the latest demands of industrial use. The company is active since 2003 and supplies its products to more than 40 countries worldwide.





HWg-Ares10/12

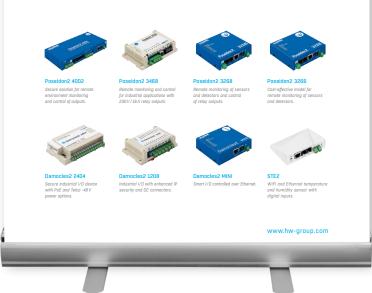


Ares 10/12

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



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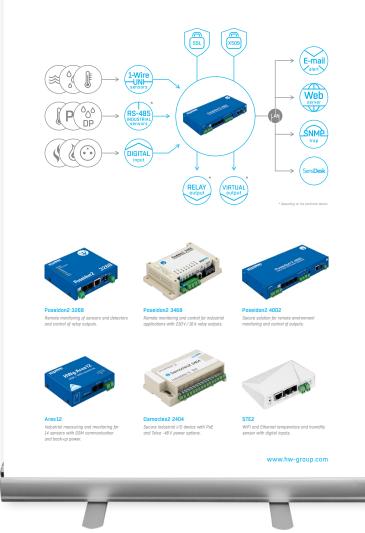


IoT – made easy



IoT - Internet of Things made easy

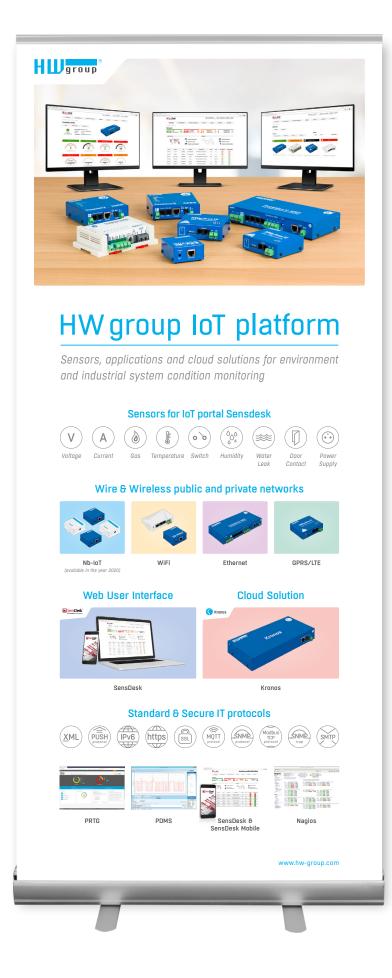
HW group is an IoT manufacturer since 2003. Products are designed for monitoring and control of digital inputs / outputs and sensors.





Roll-up (850 × 2000 mm)

IoT platform

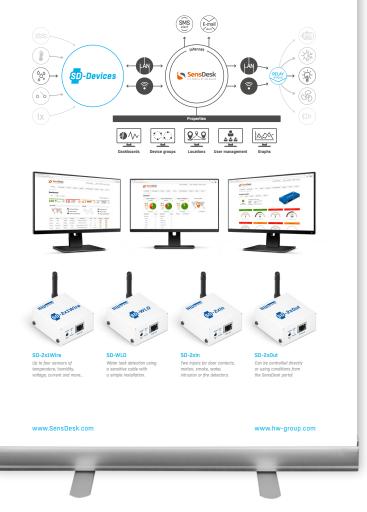


SD devices



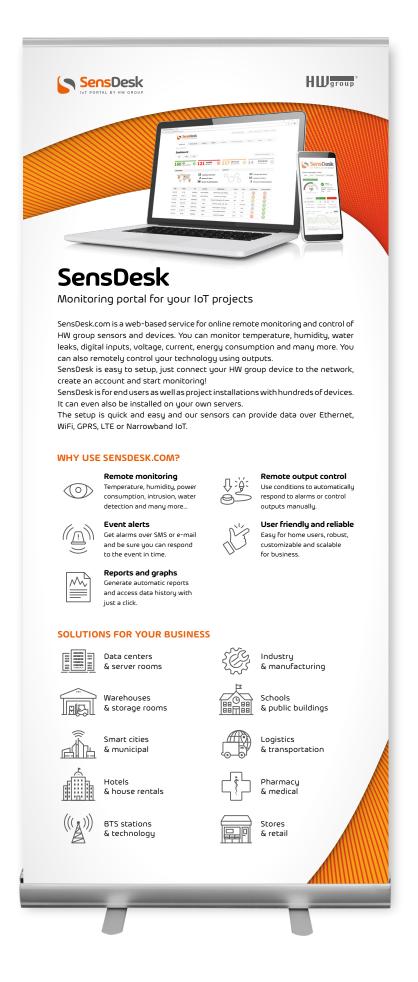
SD devices

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





SensDesk





Where to download

All marketing materials are part of the marketing package.

Download the package "Marketing Materials"

Then go to folder Products, then folder

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

Contact jbrezinova@hwg.cz with any questions or requests.







Thanks for attention

www.hw-group.com

