



# HW group

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*Promo materials 2020*



# PORTFOLIO

## Promo materials

- *Overview Catalog*
- *Flyers*
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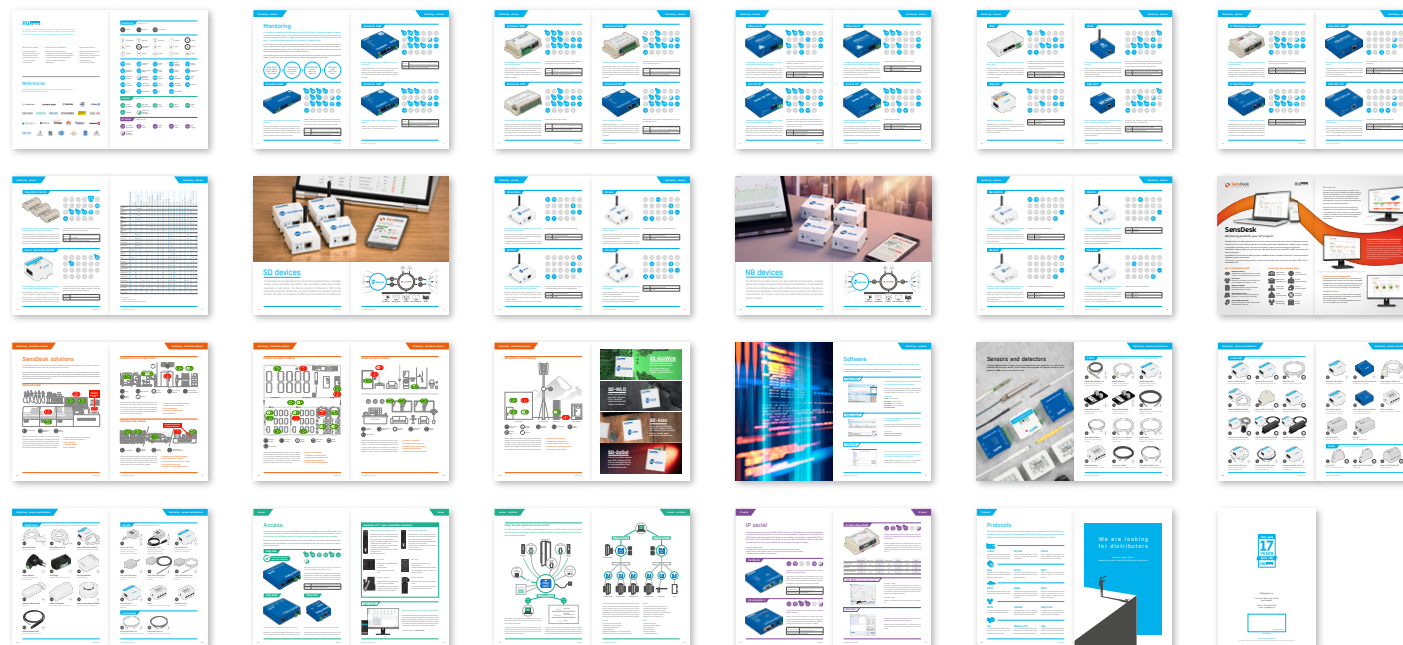
# Overview Catalog (210×297 mm)

## Product Overview




Cover

48 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 [Standard portal](#) in combination with the [Standard 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.

For Ring or SMS alarm use the [DAMOCLES2](#) (optional GSM module required) or a [DAMOCLES2](#) in the same LAN.

Compatible with a wide range of third party [SCADA](#) (etc.).

With the [SCADA](#) [DAMOCLES2](#) (optional) PO device can be connected to cost per time period and reported to MS Excel.

Examples for programming on using the product are available in the [DAMOCLES2](#) (optional) PO device. CR, PIR, JAK, and more).

Connected via LAN. Configuration via built-in web server.

All inputs feature 32-bit pulse counters that can be converted to cost per time period and reported to MS Excel.

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens InfluxDB and other cloud services.

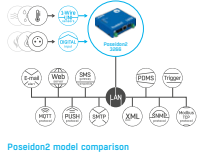
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**Typical application examples**


- 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




**Poseidon2 model comparison**

	3266	3268	3268S	3268T	3268TS
Inputs	1-Wire I/O: 8 DI: 12	8	8	8	8
Outputs	Relay: 2x 250V/2A VIO: 8	2	2	2	2
Power	0-24V -16V PHE LAN	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓

**Configuration interface**




**Versions and related products**



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## 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 (VIO) 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 [Standard portal](#) in combination with the [Standard 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 [SCADA](#) (etc.).

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens InfluxDB and other cloud services.

Virtual Digital Outputs (VIO) 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 [DAMOCLES2](#) (optional GSM module required) or a [DAMOCLES2](#) in the same LAN.

Examples for programming on using the product are available in the [DAMOCLES2](#) (optional) PO device. CR, PIR, JAK, and more).

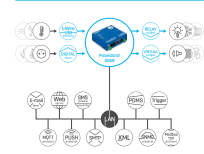
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**Typical application examples**


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




**Poseidon2 model comparison**

	3266	4022	3468	3268	3268S
Inputs	1-Wire I/O: 8 DI: 12	8	8	8	8
Outputs	Relay: 2x 250V/2A Relay: 2x 250V/2A VIO: 8	2	2	2	2
Power	0-24V -16V PHE LAN	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓

**Configuration interface**



**Versions and related products**



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# 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 **64 sensors** connected via 1-Wire UNI / 1-Wire and up to **8 digital inputs** connected to digital inputs. Poseidon2 3468 can control **2 digital 230 V / 16 A relay outputs**, as well as up to **8 virtual digital outputs (VDO)** or remote Poseidon2 or Dancosec2 units (ADM).

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

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

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).

A sensor value out of a set value range as well as a set value change sends an alert by e-mail, SMS, Email Trap, or activates a remote relay at another Poseidon2 or Dancosec2 unit. With the **SecureWeb interface**, the system can be converted to cost per time period and exported to MS Excel.

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

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancosec2 units on the same LAN. Examples for programming on using the product are available in the **SecureWeb** (for MS Excel, CSV, CR, PHP, Java and more).

For 48V or 24V alarm use the **SecureWeb software** (external DSM modules required, for **HTTP-SNMP** and **HTTP-Trap** in the same LAN).

Examples for programming on using the product are available in the **SecureWeb** (for MS Excel, CSV, CR, PHP, Java and more).

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

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

**General**

Model	HW-3208462-04 - 16-1000-1600
Supported protocols	MQTT (IPv6), SNMPv3, SNMPv1, Modbus (RTU, Modbus TCP, IEC 61850, IEC 60870-5-101, IEC 60870-5-205)

**Inputs**

Sensors	32 x 1-wire UNI / 1-wire
Digital inputs	8 x digital input with 32 pulse counters

**Outputs**

Digital Outputs (DO)	8 x relay output 230V / 16A
Virtual Digital Outputs (VDO)	Up to 8 (can be mapped to remote Poseidon2 or Dancosec2)

**Dimensions / mass**

Dimensions	140 x 40 x 50mm
Mass	200g
Mounting	Panel

**Power**

Normal operation	230/200 max.
Max. power	230/300
Power	0-30V DC, 48V AC, 16A

**User interface**

Web interface	Secure configuration and data exchange
SecureWeb Panel / SecureWeb Mobile application	Cloud panel for data readings and alarming
HTTP-Trap	Alert notification to SMS, pop-up messages, PC connection
HTTP-DSM	Logging of values, graphs, export to MS Excel
Alert software	Third party software, HTTP-DSM

**Configuration interface**

**Selected features**

Selected features	4032	3468	3468	3032
Inputs	32	8	8	8
Outputs	8	2	2	2
Power	0-30V	0-30V	0-30V	0-30V
Virtual	8	0	0	0
Connected	✓	✓	✓	✓

**Versions and related products**

Poseidon2 3468: remote monitor sensor and a power output

Poseidon2 3468 T5t: remote monitor sensor and a power output

Poseidon2 4032 T5t: remote monitor sensor, one control and a power output

Poseidon2 3268 T5t: remote monitor sensor, one control and a power output

HW-24V-20V Set: 24V sensors for 20V devices

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## 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 **62 sensors** (8 via 1-Wire UNI / 1-Wire + 28 via RS-485), **12 digital inputs** via digital dry contact inputs (DI), **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 **SecureWeb panel** in combination with the **SecureWeb Mobile application** for iOS and Android. It works with **HTTP-SNMP** and **HTTP-Trap**.

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).

A sensor value out of a set value range as well as a set value change sends an alert by e-mail, SMS, Email Trap, or activates a remote relay at another Poseidon2 or Dancosec2 unit. With the **SecureWeb interface**, the system can be converted to cost per time period and exported to MS Excel.

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

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancosec2 units on the same LAN. Examples for programming on using the product are available in the **SecureWeb** (for MS Excel, CSV, CR, PHP, Java and more).

For 48V or 24V alarm use the **SecureWeb software** (external DSM modules required, for **HTTP-SNMP** and **HTTP-Trap** in the same LAN).

Examples for programming on using the product are available in the **SecureWeb** (for MS Excel, CSV, CR, PHP, Java and more).

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

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

**General**

Model	HW-3208462-04 - 16-1000-1600
Supported protocols	MQTT (IPv6), SNMPv3, SNMPv1, Modbus (RTU, Modbus TCP, IEC 61850, IEC 60870-5-101, IEC 60870-5-205)

**Inputs**

Sensors	32 x 1-wire UNI / 1-wire
Digital inputs	12 x digital input with 32 pulse counters

**Outputs**

Digital Outputs (DO)	8 x relay output 230V / 16A
Virtual Digital Outputs (VDO)	Up to 8 (can be mapped to remote Poseidon2 or Dancosec2)

**Dimensions / mass**

Dimensions	140 x 40 x 50mm
Mass	200g
Mounting	Panel

**Power**

Normal operation	230/200 max.
Max. power	230/300
Power	0-30V DC, 48V AC, 16A

**User interface**

Web interface	Secure configuration and data exchange
SecureWeb Panel / SecureWeb Mobile application	Cloud panel for data readings and alarming
HTTP-Trap	Alert notification to SMS, pop-up messages, PC connection
HTTP-DSM	Logging of values, graphs, export to MS Excel
Alert software	Third party software, HTTP-DSM

**Configuration interface**

**Selected features**

Selected features	4032	3468	3468	3032
Inputs	32	8	8	8
Outputs	8	2	2	2
Power	0-30V	0-30V	0-30V	0-30V
Virtual	8	0	0	0
Connected	✓	✓	✓	✓

**Versions and related products**

Poseidon2 4002: remote monitor sensor, one control and a power output

Poseidon2 4002 T5t: remote monitor sensor, one control and a power output

Poseidon2 3268 T5t: remote monitor sensor, one control and a power output


Poseidon2 3268 T5t T5t: remote monitor sensor, one control and a power output

HW-24V-20V Set: 24V sensors for 20V devices

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# Flyer A4 (210×297 mm)

## Damocles2 MINI



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

**Typical application examples**

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

**Typical application examples**

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

**Basic features of Damocles2 devices:**

- Web-based configuration
- All inputs feature 32-bit pulse counters that retain their value even if the power fails
- Supports "SMS + Ring" function
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens 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 HWg-PDMS software, DI pulses can be converted to cost per time period and exported to MS Excel
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens 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 HWg-PDMS software, DI pulses can be converted to cost per time period and exported to MS Excel

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**Typical application examples**

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

**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

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- 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 HWg-PDMS software, DI pulses can be converted to cost per time period and exported to MS Excel

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## Damocles2 1208



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

**Typical application examples**

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

**Typical application examples**

- Remote equipment monitoring
- Smart buildings
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- 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 HWg-PDMS software, DI pulses can be converted to cost per time period and exported to MS Excel
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens 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 HWg-PDMS software, DI pulses can be converted to cost per time period and exported to MS Excel

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**Typical application examples**

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

**Typical application examples**

- Remote equipment monitoring
- Smart buildings
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**Basic features of Damocles2 devices:**

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# Flyer A4 (210×297 mm)

## HWg-STE



**HWg-STE**

Web thermometer with Ethernet and software for creating MS Excel reports

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

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

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

**Food storage**

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

**Service provision monitoring**

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

**HVAC monitoring**

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

**Heating optimization**

Save on heating and air-conditioning costs.

**Detecting A/C problems**

Temperature changes may point to a malfunctioning air-conditioning unit.

**Supplied with an AC adapter and a temperature sensor.**

Supplied with an AC adapter and a temperature sensor.

Easy to create temperature graphs in MS Excel.

**HWg-PDMS**

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

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**Basic features**

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

Features	
Ethernet	100 Mbit/s
IP protocols	AWS, TCP/IP, UDP, ICMP, UDP/IP (DHCP)
DHCP for IP assignment	Yes
SNMP	First SMI, Ver 1.0 (2.0 optional)
MIB protocols	MIB, MIB2, SNMP
Accuracy	±0.5°C (20°C to 40°C) ±0.5°C (40°C to 80°C)
Power	5V 1.0W
Operating temperature	0°C to 65°C

**Configuration interface**



**Related products**

- Temp-1Wire-1-Wire-10: Temperature sensor for indoor and outdoor with a precision and fast electronic, support the 1-Wire bus (1-Wire).
- Temp-1Wire-Back-10: Digital temperature and humidity sensor, designed for 1-Wire systems, connects to the 1-Wire bus (1-Wire).
- UPS-12V and 5V: Cost-effective and accurate power supply for most common powered devices, 12V or 5V adapter.
- HWg-PDMS: Monitoring software with charts and MS Excel reports. Windows application for data collection over SNMP and LAN.

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## STE2



**STE2**

WiFi / Ethernet thermometer with DI inputs

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

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

**Air-conditioning failure**

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

**HVAC supervision**

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

**Heating optimisation**

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

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**Key features:**

- Includes standard Ethernet and Wi-Fi - 802.11 b/g/n (2.4GHz)
- Supports simultaneous operation of Ethernet and Wi-Fi (for easy configuration)
- 5V power supply or PoE
- Simple installation, supports DHCP
- Built-in WEB server - no need for software other than a standard Web browser
- NMS connectivity (SNMP MIB)
- Sends e-mail at too high / low temperature
- Support for TLS authentication (Email)
- Security password protected
- Supplied with Windows software HWg-PDMS for graphing and data export to MS Excel

Connectivity	
Ethernet	RJ45 (10/100/1000-T), supports PoE (IEEE 802.3af)
WiFi	Internal antenna, 2.4GHz, 802.11 b/g/n
Web	Built-in web server
SNMP	Version 1 only, passworded, same ports of version 2

External sensors	
Sensors	1x-1Wire (100k, 100k/100k/100k/100k)
DI input	2x-Input for potential-free contact

Configuration	
MIB protocols	SNMP MIB, HWg-MIB
Access	Email, HWg Push, SMS (with extension of HWg-SMS-GW2)

Supported features	
HWg Push	Redirection of alarms to SMS, Fax-to-Web, Webhook, PC
HWg-PDMS	Logging, graphs, report to MS Excel
Other software	3rd side software, HWg-GW

Performance	
Power supply	5V / Name pin Power 0.550m, Input 0.55-0.61
Temperature range	Operating: -20°C / 80°C / 0.5% / 0.5% Storage: -30°C / 125°C / 0.5% / 0.5%
Dimensions	65x40x30 mm
Weight	500g

**Package contents:**



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# Flyer A4 (210×297 mm)

## HWg-Ares 10



**Ares 10**

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

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

**Typical application examples**

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

**Key features**

- Using original accessories: 3-Wire & 4-Wire Unit
- RS485 (3-Wire Bus)

**Dry contact inputs**

Port: 1 L, 1 D  
Type: Digital Input (Supports NO/NC Dry Contact)  
Sensitivity: 1-200 Ω (Digital pin on the terminal block can be connected to LV/0V/5V)  
Max. distance: No restriction

**Power input**

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

**Physical parameters**

Temperature range: Operating: 5 to +50°C (41 to +122°F)  
Storage: -25 to +70°C (-13 to +158°F)  
Dimensions / Weight: 76x53x28 mm / 102g  
MPC: 400 Pin 100 Ohm R/L CR - EN 50303, EN 50304, EN 50305

**Configuration interface**

Connect up to 3 sensors over the 3-Wire / 4-Wire Unit (RS485) bus (max 3 measured values) and up to 2 digital dry contact inputs for external detectors.

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

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


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

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

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

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## double sided



**Ares 10**

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

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## HWg-Ares 12



**Ares 12**

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

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

**Typical application examples**

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

**Key features**

- Using original accessories: 3-Wire & 4-Wire Unit
- RS485 (3-Wire Bus)

**Dry contact inputs**

Port: 1 L, 1 D  
Type: Digital Input (Supports NO/NC Dry Contact)  
Sensitivity: 1-200 Ω (Digital pin on the terminal block can be connected to LV/0V/5V)  
Max. distance: No restriction

**Power input**

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

**Physical parameters**

Temperature range: Operating: 5 to +50°C (41 to +122°F)  
Storage: -25 to +70°C (-13 to +158°F)  
Dimensions / Weight: 76x53x28 mm / 102g  
MPC: 400 Pin 100 Ohm R/L CR - EN 50303, EN 50304, EN 50305

**Configuration interface**

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

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

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

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


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

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

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

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**Ares 12**

**Typical application examples**

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# 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
- Diesel generators - environment and status monitoring

**Specifications**

**Interface**

Type: 3-Wire sensor, accessories: 3-Wire & 3-Wire cable

Connector: RS-485 Bus

Capacity: Up to 3 sensors

Sensor distance: Up to 60m

**Dry contact inputs**

Type: 1 x 1

Type: Digital Input (Requires NO/NC Dry Contact)

Sensitivity: 1 Dry - 0-1000 Ohms on the terminal block can be converted to 0.1-1000

Max. distance: Up to 50m

**Power input**

Type: 0-20V DC

Type: Main device power input (max. 500mA)

Connector: 2-pin female, 2-pin male (5.0mm)

**Operating parameters**

Temperature range: Operating: -40 to 125°C (4 to 257°F)  
Storage: -25 to 65°C (-13 to 147°F)

Humidity range: 10-90% RH non-cond.

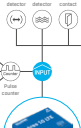
EMC: Class B, CE - EN 55022, EN 55024, EN 61010

**Configuration interface**

Web: http://ares.hwgroup.com

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## double sided



**Ares 10 LTE**

**Typical application examples**

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- Water source monitoring, including technical equipment status
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**Configuration interface**

Web: http://ares.hwgroup.com

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## 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/LTE monitoring of machines and their environment
- AMMs - environment monitoring without tampering with the connection
- Art exhibits and apparatuses
- Storage of food or materials
- Cooling systems and coolers

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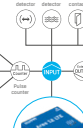
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**Configuration interface**

Web: http://ares.hwgroup.com

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Web: http://ares.hwgroup.com

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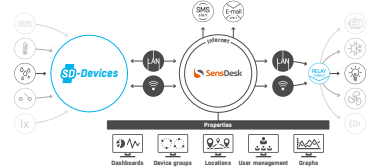
# Flyer A4 (210×297 mm)

## 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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www.SensDesk.com

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## double sided

**SD-2x1Wire**  
Connect up to four sensors of temperature, humidity, voltage, current, light, air flow and many others. The sensors can be 1-Wire or 1-Wire UNI.

**SD-WLD**  
Water leak detection using a sensitive cable. The cable detects even a few drops of water, so it can be also used to detect condensation. Cable can be up to 85 meters long.

**SD-2xin**  
Two digital inputs for door contacts, or any other detector with a dry contact output such as motion, fire, smoke or gas detectors.

**SD-2xOut**  
Two relay outputs easily controlled from the SensDesk portal. You can switch them either manually or with a condition (local or remote).

---

**SD Devices Features**

- Ethernet and WiFi - 802.11 b/g/n (2.4Ghz)
- Embedded WEB server
- Powered by 5V DC or PoE
- Security protected with a password
- Simple installation, DHCP support
- Easy setup with a few clicks
- Simultaneous Ethernet and WiFi operation
- Metal housing, DIN and rack mount available



### 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.
- SensDesk can connect to third party systems**  
You can send your data to other applications using XML, MQTT, SNMP or Modbus TCP.

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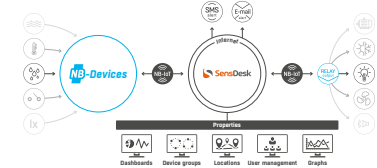
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## NB devices



### 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.



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## double sided

**NB-2x1Wire**  
A simple device for monitoring temperature, humidity and more. It uses a very sensitive detection cable.

**NB-WLD**  
NB-WLD is a water leak detector with narrowband IoT connectivity.

**NB-2xin**  
An easy to use device with Narrowband IoT connectivity for monitoring digital inputs in remote places.

**NB-2xOut**  
Narrowband IoT device with two relay outputs, that can control remote technology manually or based on conditions.

---

**NB Devices Features**

- Narrowband IoT (NB-IoT) connectivity
- Hundreds of available sensors
- Internal battery with up to 3 years lifetime
- Secure and reliable
- External 5V DC power
- Easy setup with a few clicks
- Simple installation, remote device adoption
- Metal housing, DIN and rack mount available



### 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.
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# Flyer A4 (210×297 mm)

## Temp 1Wire Pt1000



**Temp 1Wire Pt1000**

Industrial precision sensor

**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 IHM protocols including Modbus, CAN, RS485, ZigBee, etc. HW group devices are also supported by many 3<sup>rd</sup> party applications and clouds.

**Technical parameters**

Temperature	-50°C up to 200°C (-100°C - 392°F, Frost version available)
Accuracy	±(0.25 + 0.0025)
Resolution	0.02
Protection	IP67
Cable length	3m
Calibration	Yes, in 8 points

**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.

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**Application examples**

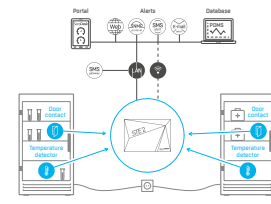
Offering high precision at an affordable price, the Pt1000 sensors are designed for demanding industrial applications, where wide temperature range is critical, data needs to be collected for audits and sensors need to operate in a demanding environment.

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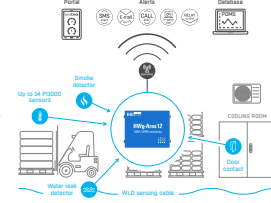
**Temperature monitoring in freezers, food storages and medical applications**

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 receive periodical 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 alarms or calls are available when you connect the SMS Gateway device.



**Temperature monitoring in industrial applications and warehouses**

The Area devices can connect up to 16 Pt1000 sensors and send the data over GSM/GPRS or LTE. The Area can also monitor many other environmental parameters, making 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 generate periodical reports and review data history. The data can also be retrieved from the device itself without the need for a portal. Email, SMS and call alarms can warn you when values are out of range.



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## SensDesk



**SensDesk**

Monitoring portal for your IoT projects

SensDesk.com is a web-based service for online remote monitoring and control of HW group sensors and devices. You can monitor temperature, humidity, water leaks, digital inputs, voltage, current, energy consumption and many more. You can also remotely control your technology using outputs. SensDesk is easy to setup, just connect your HW group device to the network, create an account and start monitoring!

SensDesk is for end users as well as project installations with hundreds of devices. It can even also be installed on your own servers. The setup is quick and easy and our sensors can provide data over Ethernet, WiFi, GPRS, LTE or Narrowband IoT.

**WHY USE SENSDESK.COM?**

- Remote monitoring**  
Temperature, humidity, power consumption, intrusion, water detection and many more...
- Event alerts**  
Get alerts over SMS or e-mail and be sure you can respond to the event in time.
- Reports and graphs**  
Generate automatic reports and access data history with just a click.
- Remote output control**  
Use conditions to automatically respond to alarms or control outputs manually.
- User friendly and reliable**  
Easy for home users, robust, customizable and scalable for business.

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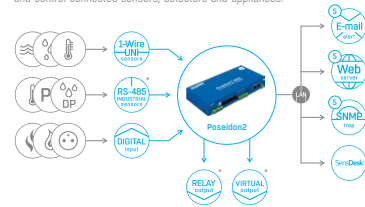
# Poster A1 (594×841 mm)

## Poseidon2



### Poseidon2

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



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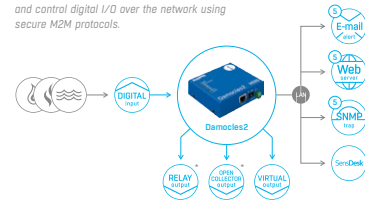
\* Depending on the purchase model of the Poseidon2 series.

## Damocles2



### Damocles2

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



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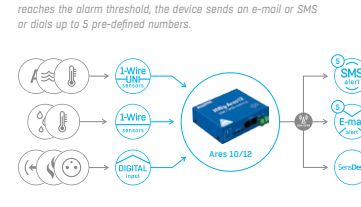
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## HWg-Ares 10/12



### Ares 10/12

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



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## HW group IoT platform



### HW group IoT platform

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

#### Sensors for IoT portal SensDesk



#### Wire & Wireless public and private networks



#### Web User Interface



#### Cloud Solution



#### Standard 6 Secure IT protocols



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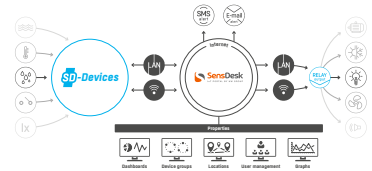
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## SD devices



### SD devices

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[www.SensDesk.com](http://www.SensDesk.com)

## SensDesk

**SensDesk**  
IoT PORTAL BY HW GROUP

### SensDesk

Monitoring portal for your IoT projects

SensDesk.com is a web-based service for online remote monitoring and control of HW group sensors and devices. You can monitor temperature, humidity, water leaks, digital inputs, voltage, current, energy consumption and many more. You can also remotely control your technology using outputs.

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

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

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

**WHY USE SENSEDESK.COM?**

- Remote monitoring**  
Temperature, humidity, power consumption, intrusion, water detection and many more...
- Event alerts**  
Get alerts over SMS or e-mail and be sure you can respond to the event in time.
- Reports and graphs**  
Generate automatic reports and access data history with just a click.
- Remote output control**  
Use conditions to automatically respond to alarms or control outputs manually.
- User Friendly and reliable**  
Easy for home users, robust, customizable and scalable for business.

**SOLUTIONS FOR YOUR BUSINESS**

- Data centers & server rooms
- Industry & manufacturing
- Warehouses & storage rooms
- Schools & public buildings
- Smart cities & municipal
- Logistics & transportation
- Hotels & house rentals
- Pharmacy & medical
- BTS stations & technology
- Stores & retail





**Thank you for  
your attention.**



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