HW group s.r.o. is a Czech manufacturer of monitoring and remote control solutions. We deliver top quality products that are part of a robust ecosystem, from sensors to monitoring software. All our units are manufactured in the European Union and sold by over 40 distributors worldwide.

What do we make?
- Remote monitoring and control solutions
- IoT Devices and Sensors
- Monitoring software and online portal
- 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
- 18 years of experience with monitoring devices
- Strict quality control and compliance
- Made in the European Union

Typical applications
- Environment monitoring
- HVAC control & monitoring
- Water Leak monitoring
- Energy metering
- Security & I/O Integration
- Building Management
- Access Control
- Infrastructure monitoring

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

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Monitoring

Our portfolio of monitoring and control units with LAN/GSM/Wi-Fi 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.

| Data Input | Measured quantities, Sensors, Detectors, Inputs / Outputs |
| Processing | Product lines, Logging, Analysis, Alarms |
| M2M Transfer | XML/HTTP, SNMP E-mail, GPRS/SMS |
| SW Apps | Reports Graphs, Excel, Alarms |

**Poseidon2 4002**

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 (VDO) at remote Poseidon2 or Damocles2 units (M2M).

**Poseidon2 3268**

Remote monitoring of sensors and detectors and control of relay outputs.

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).

**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, GPRS, SMS, HWg-PUSH

Software SensDesk, HWg-PDMS, HWg-Trigger
Remote monitoring and control for industrial applications with 230 V/16 A relay outputs.

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.

<table>
<thead>
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<td>SensDesk, HWg-PDMS, HWg-Trigger</td>
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Industrial I/O with enhanced IP security and DC 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 50 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).

Thanks to 9–30 VDC, -48 V and PoE power options, Damocles2 1208 can be deployed in a wide range of situations.

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</table>

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 50 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.

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**Monitoring – Devices**

**STE2**

WiFi and Ethernet temperature and humidity sensor with digital inputs.

STE2 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 5V adapter, STE2 can be powered over the Ethernet (PoE).

**Protocols**: HTTP, 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

**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

**HWg-Ares10**

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
**HWg-WLD**

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 also be 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) to send a text message.

By providing an 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

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**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-Area. The sensing cable detects as little as a few drops of a liquid, and can also be used to detect condensation. Whenever a liquid is detected, the device switches the relay, or uses a Poseidon2 or HWg-Area 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
- –

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**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

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**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.
### 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.

<table>
<thead>
<tr>
<th>Protocols</th>
<th>HTTP, SNMPv3, SNMP Trap, HWg-PUSH, Modbus/TCP, XML, NetGSM</th>
</tr>
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<tr>
<td>Software</td>
<td>SensDesk, HWg-POEMS, HWg-Trigger</td>
</tr>
</tbody>
</table>

### HWg-SMS-GW3

**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.

<table>
<thead>
<tr>
<th>Protocols</th>
<th>SNMPv3, SNMPv2c, XML, NetGSM</th>
</tr>
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<tr>
<td>Software</td>
<td>HWg-Trigger</td>
</tr>
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</table>

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Monitoring – Sensors and Detectors

**Digital Input**

- **Door Contact MK4**
  - Compatibility: Poseidon2, HWg-Ares, Damocles2, STE2
  - 3m connection wiring

- **Flood Detector LD-12**
  - Spot flood detection

- **Power Detector**
  - Voltage: 110/230 V, relay output (max. 50 V/130 V)

- **PowerEgg2**
  - Voltage: 110/230 V single phase, max. load 8A

- **Vibration Detector SS14**
  - IP23 rating

- **Motion PIR Detector**
  - Recommended installation height: 2.5 m

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

- **Gas Leak Detector**
  - 2 optional reactions

- **AirFlow Detector S101**
  - Wind speed: 1 to 10 m/s, IP67 rating

**1-Wire**

- **1-Wire hub Power**
  - 8× 1-Wire or 1-Wire UNI bus expander

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

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

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

- **HTemp-1Wire-Box2**
  - Temperature range: -30 to 80°C, humidity range: 0-100 % RH

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

- **Temp-1Wire-Flat 3 m**
  - Temperature range: -30 to 65°C, IP67 rating

- **HTemp-1Wire Rack19 3 m calibrated**
  - Temperature range: -10°C to 80°C, humidity range: 0-100 % RH

- **Temp-1Wire IP67**
  - Temperature range: -30 to 80°C, IP67 rating, available in 1m, 3m, 10m

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

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

- **HTemp-1Wire-Box2 3 m**
  - Temperature range: -30 to 80°C, humidity range: 0-100 % RH

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

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Monitoring – Sensors and Detectors

**1-Wire UNI**

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

- **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: 0-60 V 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 3m 1W-UNI**
  - Temperature range: -50 to 200 °C, IP67 rating

- **Probe Pt100 TR125 2m**
  - Temperature range: -180 to 150 °C, IP67 rating

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

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

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

- **Relay output 1W-UNI**
  - 4× relay output, supported only by HWg-Ares 12/14

- **Temp Pt-1000 3m 1W-UNI**
  - Temperature range: -50 to 200 °C, IP67 rating

- **1-Wire hub Power**
  - 8× 1-Wire or 1-Wire UNI bus expander

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

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

- **Sensor WLD Relay 1W-UNI**
  - 8× relay output, supported only by HWg-Ares 12/14

- **Meter 3f ED 310.DB HWG**
  - 3× 230 V, 63 A

- **Accesories**

- **1-Wire UNI**
  - Compatibility: Poseidon2, HWg-Ares

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

- **Sensor 230 V AC 1W-UNI**
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- **Sensor 60V 1W-UNI v2**
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Monitoring – Sensors and Detectors

**RS-45**

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

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

**PHTemp-485 T7410**
Temperature range: -30 to 80°C, humidity range: 0–100 % RH, pressure range: 80–1020 Pa, dew point range: -60 to 80°C

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

**Temp-485-Pi100 Box2**
Temperature range: -30 to 70°C, IP55 rating

**Temp-485-Pi100 Cable3**
Temperature range: -30 to 70°C, IP23 rating

**Temp-485-Pi100 Frost2**
Temperature range: -190 to 150°C, IP53 rating

**Poseidon S-Hub**
8 sensors over RJ45

**Temp-485-Pi100**
Temperature range: -10 to 70°C, IP55 rating

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

Monitoring – Software

**SensDesk portal**

Online IoT portal for real-time monitoring of HW group devices.

From a single interface, you can manage all of your devices, compare trends of variables in time, and process alarm alerts and much more.

**License type:**
- **Free** – free for up to 10 devices
- **Commercial** – various subscriptions and purchase options available

**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, °C, °F, °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, CM, .NET, Borland C++, Microsoft C++, Borland Delphi, JAVA, PHP, AJAX, and more.
SensDesk
Monitoring and control portal for IoT projects with HW group devices

Online sensor status and measurement overview
Alert services
Remote process control and switching
Configurable user interface/dashboard
Quick setup and configuration

The SensDesk portal allows to connect all HW group devices that support the HWg Push protocol:
- **Poseidon2**
  4002, 3468, 3268, 3266
- **Damocles2**
  2404, 3208, MINI
- **HWg-Ares**
  12, 10
- **STE2**
- **STE plus**
- **HWg-PWR 3/12/25**

**APPLICATIONS AND USAGE**
- IT: Monitoring of operating conditions
- Food industry: Monitoring of storage conditions (temperature, humidity, etc.) within a certification system (HACCP)
- Pharmaceutical industry: Monitoring of medical material storage
- Temperature monitoring in 19" racks and server rooms
- Monitoring of UPS status, humidity, power, access to the room

**SUPPORTED DEVICES**

**Alert services**
For all sensors serviced by the SensDesk portal, an operating range of values can be set. If this range is exceeded, the system shows an alert for the affected sensor. Alerts can be conditionally forwarded to e-mail or SMS.

All alerts, such as temporary device or sensor inaccessibility or measured values exceeding the specified limits, 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 relay manually; in addition, SensDesk provides several simple algorithms for switching the outputs automatically according to sensor states.

**Quick setup and configuration**
All HW group 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 powered by HW group**
SensDesk portal is a web-based service, providing online remote monitoring and control capabilities for HW group sensors and devices without need of user IT system configuration or a control application. The SensDesk Mobile application is available for Android and iOS devices.

Users can use unlimited number of sensors, connected to up to 10 HW group devices. To monitor and control more devices, please ask for our concentrator system (expected availability Q1 2019) that includes SensDesk portal functions.
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.

Expansions

HWg-SH4e

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® card reader that accepts 125 kHz Prox, HID 13.56 MHz ICCLASS® and MIFARE® 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

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

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 slide bolts

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

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
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**

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.

**I/O Controller 2**

I/O Controller 2 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 HW VSP3 application, up to 100 remote serial ports can be connected to a single PC.

**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.

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.

**HW VSP3 Virtual serial port**

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.

**Hercules**

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 RJ11 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.

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.

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.

Protocols

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