

Poseidon2 3266 MANUAL



Safety information

The device complies with regulations and industrial standards in force in the Czech Republic and the European Union. The device has been tested and is supplied in working order. To keep the device in this condition, it is necessary to adhere to the following safety and maintenance instructions.

Never remove the device cover if the relay terminals are connected to the electrical network!

Using the device in a manner other than prescribed by the manufacturer may cause its safeguards to fail!

The power supply outlet or disconnection point must be freely accessible.

The device must not be used in particular under any of the following conditions:

- The device is noticeably damaged
- The device does not function properly
- Unfastened parts can move inside the device
- The device has been exposed to moisture or rain
- The device has been serviced by unauthorized personnel
- The power adapter or power supply cable are noticeably damaged
- If the device is used in a manner other than designed for, the protection provided by the device may fail.
- The local electrical system must include a power switch or a circuit breaker and overcurrent protection.

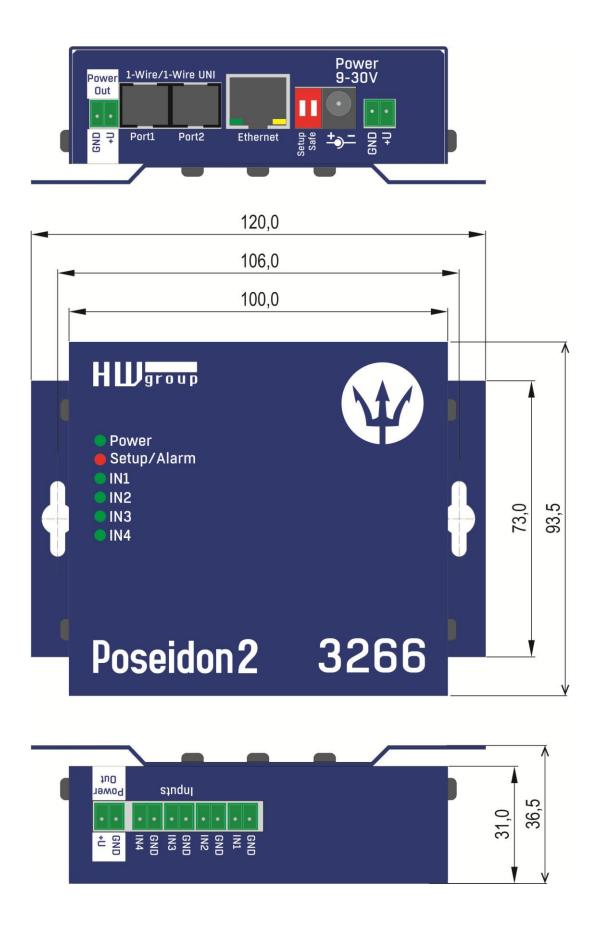
The manufacturer warrants the device only if it is powered by the supplied power adapter or an approved power supply.

If you have any problems with installing or operating the device, please contact technical support:

HW group s.r.o. http://www.hw-group.com Email: support@HWg.cz

U Pily 3 143 00 Praha 4 Tel. +420 222 511 918

When contacting technical support, please keep at hand the exact type of your device (at the type plate) and, if possible, the firmware version (see later in this manual).



First steps

1) Connecting the cables

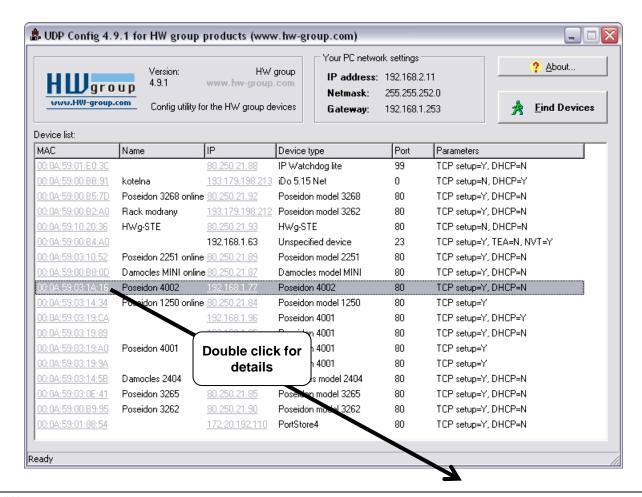
Turn the unit and write down its MAC address that is printed on the label on the side.

- Set the switches: DIP1=Off, DIP2=Off.
- Connect the unit to the Ethernet (with a patch cable to a switch, cross-over cable to a PC), RJ-45 port.
- Plug the power adapter into a mains outlet and connect it to the Poseidon power jack.
- The green **POWER** LED lights up.
- If the Ethernet connection works properly, the **LINK** LED lights up after a short while, and then flashes whenever data are transferred (activity indication).

2) Configuring the IP address – UDP Config

UDP Config utility – root directory of the supplied CD (Windows and Linux versions). Available for download at www.HW-group.com Software > UDP Config.

- Click the icon to launch UDP Config. The program automatically looks for connected devices.
- Automatic device discovery works only in the local network.
- Individual Poseidon units are identified by their MAC addresses (on the label at the bottom).
- Double-click a MAC address to open a basic device configuration dialog.

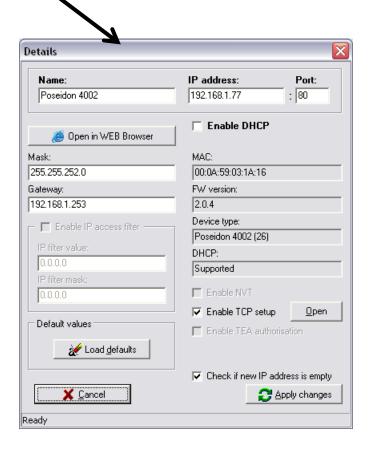


First steps

Configure the network parameters

- IP address / HTTP port (80 by default)
- Network mask
- Gateway IP address for your network
- Device name (optional)

Click the **Apply Changes** button to save the settings.



Alternatively, you may use the following utilities to configure the IP address:

UDP Config for Linux

Important:

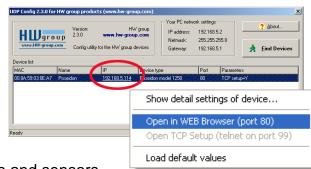
- To reset the device to factory defaults, toggle DIP1 several times within 5 seconds after applying power to the device.
- No configuration changes can be stored while DIP2=On.
 To change the IP address, set DIP2=Off.

First steps

4) WWW interface of the device

- To open the WWW interface of the device:
 - Enter the IP address into a web browser
 - o Click the IP address in UDP Config
 - Click the underlined IP address in UDP SETUP

The WWW page displays current states of devices and sensors.



Web interface of the device

General: Overview of current readings

General Setup: IP address, DNS, security (username/password)

SNMP: SNMP / SNMP Trap configuration (ports and alarm recipients)

E-mail: Configuration and test

GSM & RFID: Configuration and test in order to use a remote SMS-GW

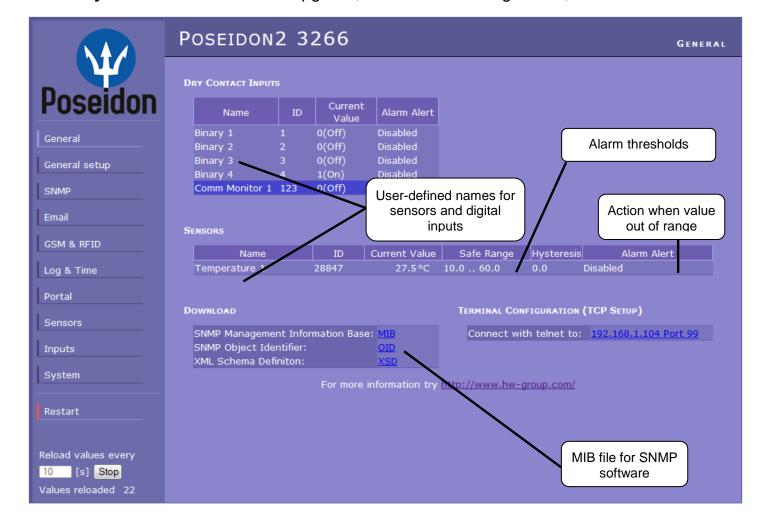
Log & Time: Time configuration, NTP server

Portal: Connection to a remote portal system

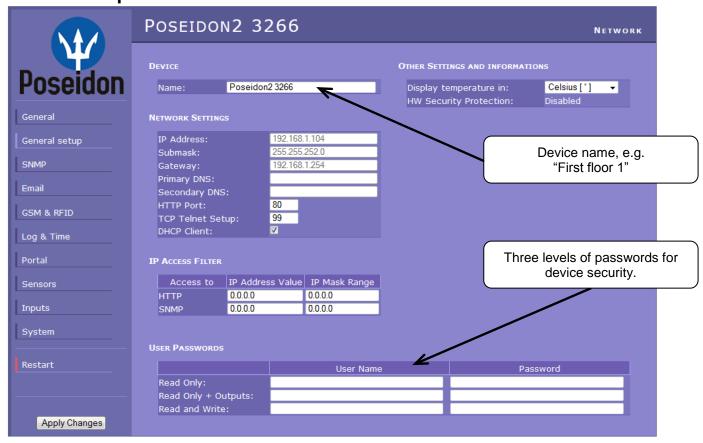
Sensors: Device name, sensor names, status overview

Inputs: Control of inputs and alert parameters

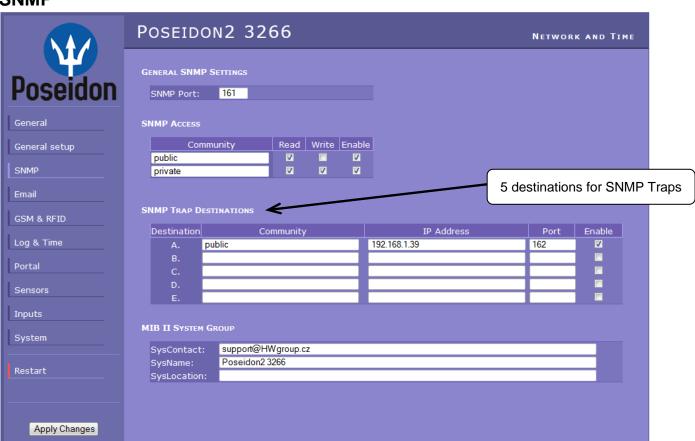
System: Firmware upgrade, save/restore configuration, etc.



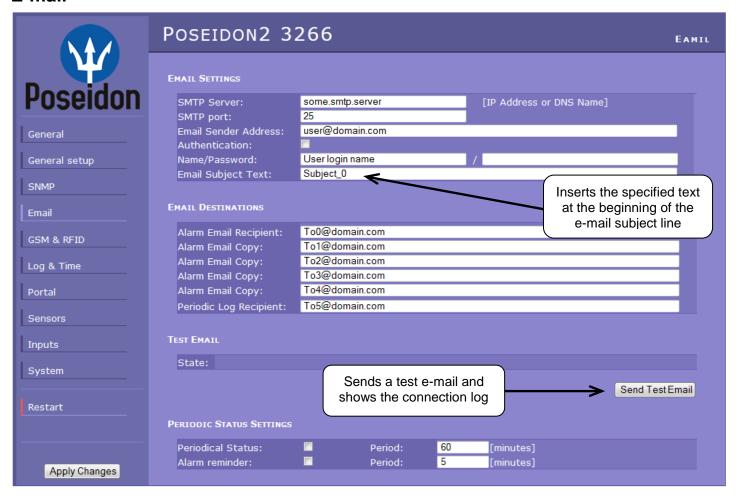
General Setup



SNMP



E-mail



Periodic Status Settings

Periodical Status

When on, sends an e-mail with device status at the specified intervals. For example every 24 hours (1440 minutes).

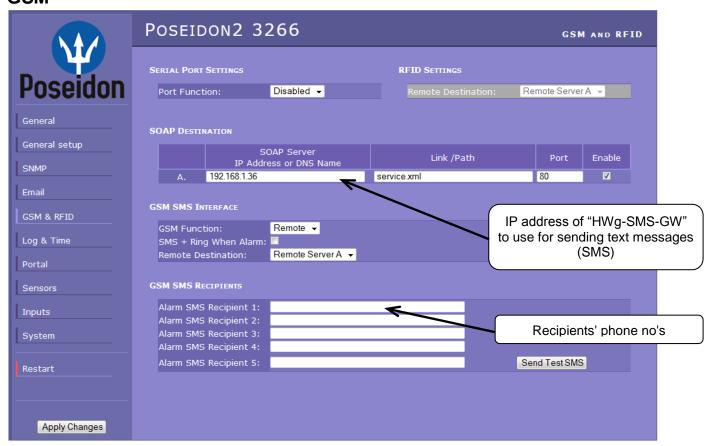
Alarm reminder

When active, sends periodic reminders that the device is in the Alarm state. For example every 15 minutes.

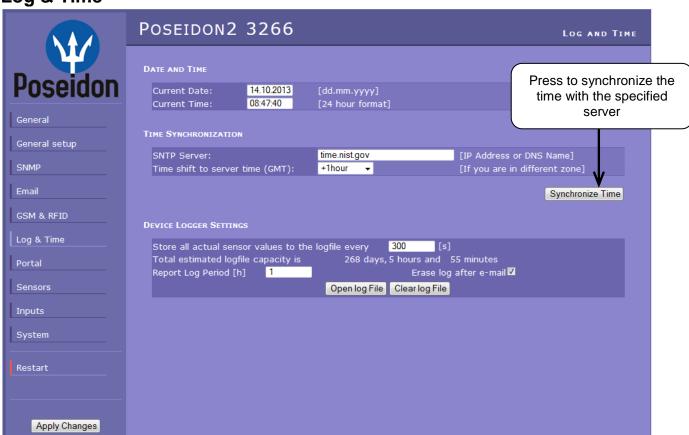
To send e-mail, check: Correct Gateway IP address DNS server in network settings SMTP server and port Authentication turned on, correct username and password Spam filter for your mailbox is disabled

NOTE: Configuration changes must be confirmed by clicking the Apply Changes button.

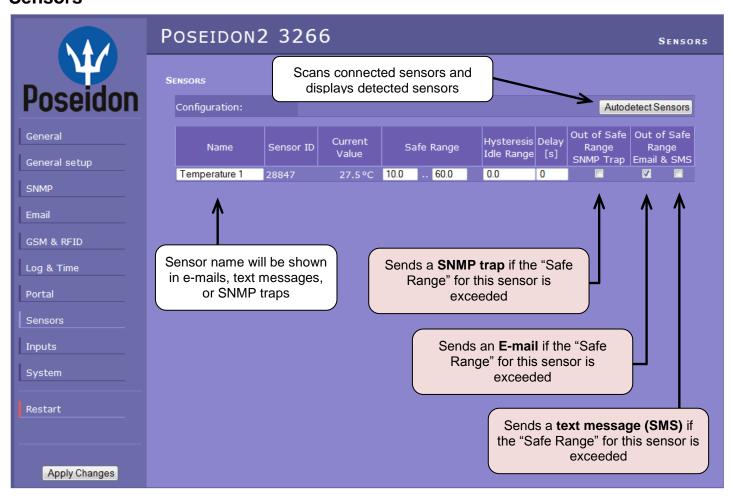
GSM



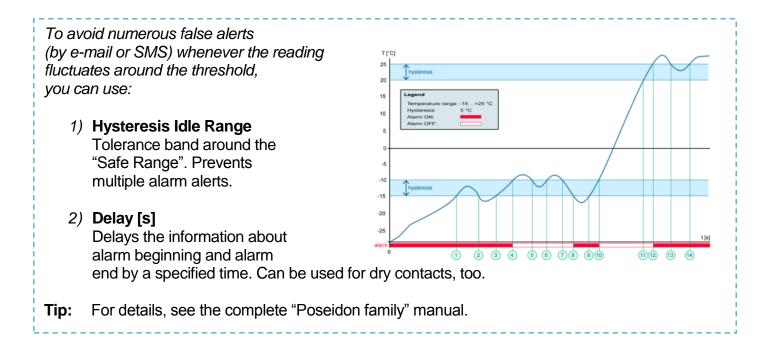
Log & Time



Sensors

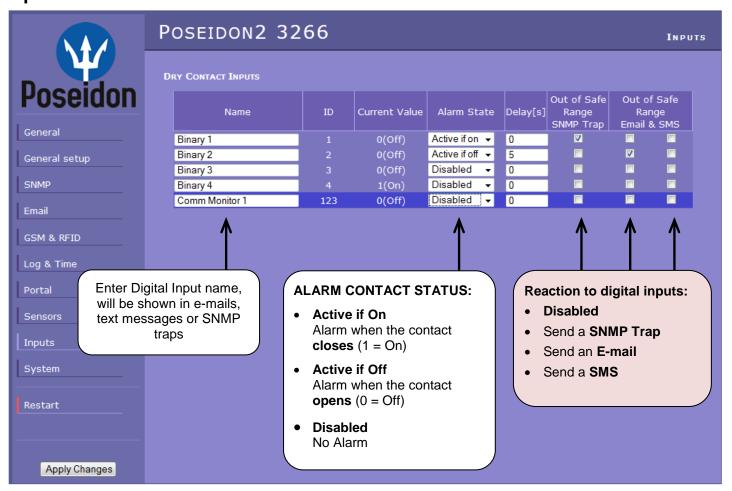


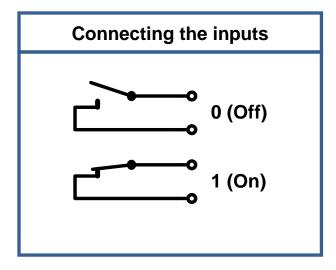
After connecting sensors or changing RJ11 connections, sensors need to be detected again.



NOTE: Configuration changes must be confirmed by clicking the Apply Changes button.

Inputs





FAQ

- Poseidon2 informs about alarm activation and deactivation for each Digital Input and/or sensor.
- E-mail format cannot be changed; sensors may have custom names.
- Yellow background in a line with a sensor or an input means that the safe range is exceeded but alarm notification is off.

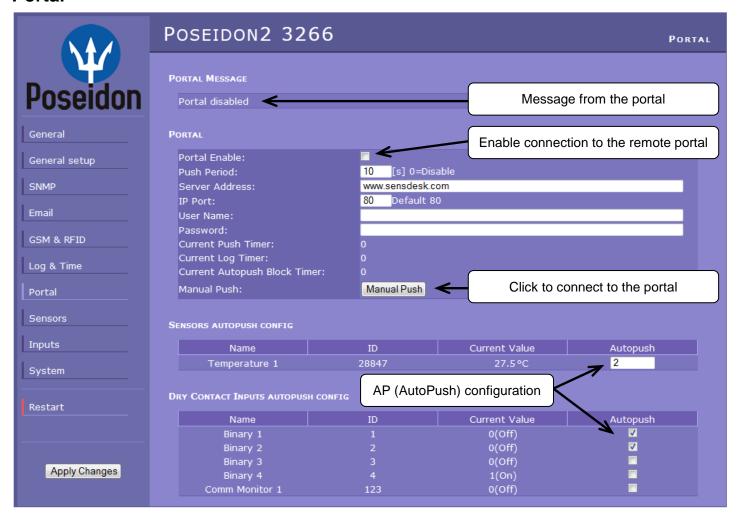
NOTE: Configuration changes must be confirmed by clicking the Apply Changes button.



Poseidon family manual

For a detailed description of the settings and tabs in the configuration interface, see the "**Poseidon Family**" manual. Available on the WEB or the install CD.

Portal



Configures the communication with the portal using the HWg-Push protocol. Poseidon2 is the active party and establishes the connection periodically and/or whenever a change in a sensor value exceeds the configured AutoPush value.

The www.SensDesk.com portal connection parameters are pre-filled.

AutoPush configuration

Poseidon2 connects to the portal and notifies a value change whenever a change in the sensor reading exceeds the configured AutoPush value.

This configuration only applies to the communication between Poseidon2 and the online portal. Local alarm values are configured in the portal.

For portal connection, check: Correct Gateway IP address DNS server in network settings Correct Server Address of the portal

System



Communication Monitor

This function controls a virtual Digital Input that is available in **Inputs** as "Com Monitor 1" with an ID of 123. If no communication took place in the specified time using the selected protocols, it sets "Com Monitor 1" = 0 (Off).

This function is useful e.g. to send a warning e-mail whenever Poseidon2 ceases to be periodically monitored over SNMP or SCADA.

Configuration

- Download retrieve the configuration from the device and store it on the PC.
- Upload send a saved configuration from the PC to the device.

NOTE: Configuration changes must be confirmed by clicking the Apply Changes button.

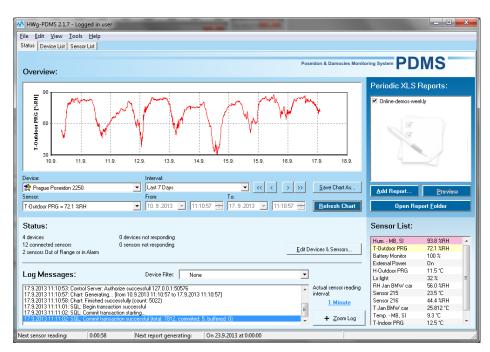
Software Applications

HWg-PDMS

Windows application that logs data from all HW group devices into its internal database.

The application runs in the background (NTservice). Data are received from the device over http or e-mail.

Data can be exported over XML or automatically stored to MS Excel.



License: Free HWg-PDMS version for 3 sensors

Paid versions for 8 / 20 / 200 / unlimited sensors

HWg-Trigger

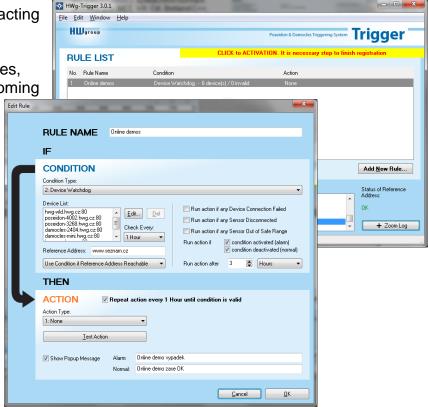
Windows application for detecting and reacting to events.

Detects, for instance, disconnected devices, failed sensors values out of range, or incoming SNMP Trap alerts.

Possible responses include sending an e-mail, activating a relay over the network, or sending a text message (SMS) using HWg-SMS-GW.

Other responses include displaying a warning message in Windows,

starting an application, or shutting down the computer.



License: 30-day trial version free of charge

PosDamIO

Poseidon Damocles I/O is a command-line utility for Windows and Linux that lets you control Poseidon and Damocles units over the XML interface. It can display the states of sensors, inputs and outputs, as well as set an output high or low.

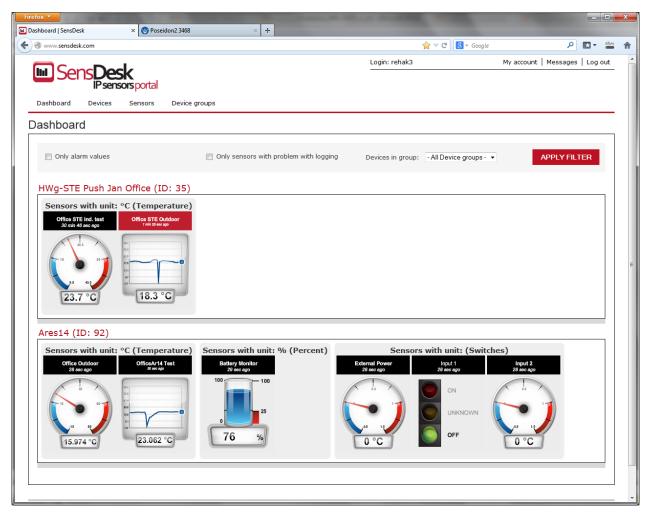


SensDesk.com

Online portal for collecting data from LAN and GSM sensors.

Poseidon2 can connect to the SensDesk internet service. All devices can be managed from a single WWW interface. Watch sensor states, display your devices in a map, compare trends in time and analyze alarm messages.

SensDesk is a way to implement fully functional monitoring of customer technology in a matter of minutes, with fixed costs of the system. No need for installing a complex system or adding another server at the customer side.



- Overview of all sensors at a single place
- Centralized alarm configuration for individual sensors
- Mobile application for monitoring
- Remote configuration of GSM devices.

www.SensDesk.com

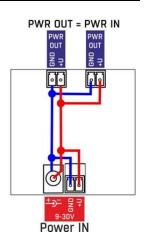
Specifications

ETHERNET	
Interface	RJ45 (100BASE-Tx) – 10/100 Mbps network compatible
Supported protocols	IP: ARP, TCP/IP (HTTP, NTP, SMTP, netGSM, HWg-PUSH), UDP/IP (SNMP)
SNMP compatibility	Ver.1.00 compatible, partial ver.2.0 implementation
Logger	
Internal memory	250,000 records in flash memory
Logged items	Sensors, DI, DO
SENSORS	
Туре	HWg original accessories: 1-Wire & 1-Wire UNI
Connector	2xRJ11
Sensors	Up to 8 sensors in total (temperature + humidity combo sensors count as 2 sensors)
Sensor distance	Up to 60m
DI (Digital Inputs for D	
Port	11, 12, 13, 14
Туре	Digital Input (supports NO/NC Dry contact)
Sensitivity	1 (On) = 0–500 Ω
Max. distance	Up to 50m
POWER input	
Port	POWER 9-30V DC
Power input	9-30V DC / 2,5W (typically 250 mA) Connectors: Jack (barrel, inner 2.5 mm outer 6.3 mm) + Terminal Block
DOWED output	
POWER output Voltage	Power Out = Power IN (9–30V)
Current / Connector	Max. 150mA / Terminal Block
Current / Connector	Wax. 130HA / Terminal Block
LED status indicators	
POWER (RJ45 + top)	Green – power OK (top), Ethernet enabled (RJ45)
LINK & Activity (RJ45)	Yellow - Ethernet connectivity
Setup / Alarm	Red
Inputs	Green
Outputs	Yellow
	,
DIP SWITCH	
DIP1: Setup	OFF = Normal state Load defaults: Set ON, power-up device, toggle 3 times during first 5 seconds
DIP2: Security	ON = Secure mode (online demo) – remote configuration disabled OFF = Non-secure mode – remote configuration enabled
Dhysical neverses	
Physical parameters	Operating: 20 to 195 °C (22 to 167 °E) / Storage: 25 to 195 °C (24 to 1495 °C)
Temperature range	Operating: -30 to +85 °C (-22 to 167 °F) / Storage: -35 to +85 °C (-31 to +185 °F)
Dimensions / Mass	145 x 90 x 45 [mm] / 225 g
EMC	FCC Part 15, Class B, CE - EN 55022, EN 55024, EN 61000

Power output

Poseidon2 3266 features the PWR OUT terminals for powering connected sensors and detectors. For example a smoke detector.

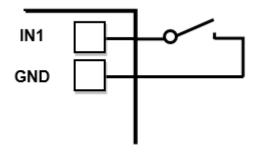
PWR OUT voltage corresponds to the Poseidon 3266 supply voltage!



Inputs - Digital (dry contact) inputs

Digital input terminals may be connected to voltage-free contacts or the GND pin. The inputs are electrically connected to the 12V power supply. Never connect the inputs to the 48V supply voltage!

- Unconnected inputs read as "0 (Off)"
- Active inputs read as "1 (On)"
- Supported sensors: Any contact without external voltage (dry contact)
- Polling period: 800 ms
- Range of sensor IDs: Inputs use IDs from 1 to 24



M2M interface

The product is ready to be connected with third-party SW applications.

For a description of the interfaces (XML format, detailed SNMP description, mapping of Modbus/TCP variables), see the detailed "**Poseidon family**" manual.

- XML (over HTTP)
- SNMP, SNMP traps
- Modbus/TCP
- SMTP (E-mail)

TIP

• For more information, including a detailed description of the M2M communication interface, see the **detailed Poseidon family manual**.

SDK (Software Development Kit)

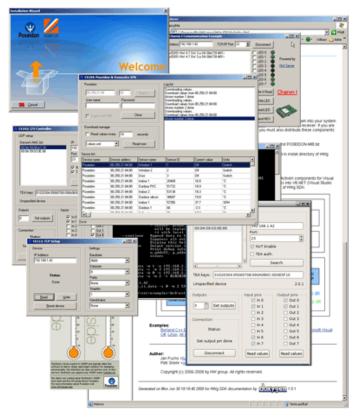
Programmers can take advantage of the **HWg SDK** (Software Development Kit) with an ActiveX

interface and ready-made examples.

VB - Visual Basic (6.0) - (3xx examples)

Borland C++ (1xx examples)

- Microsoft Visual C++ (2xx examples)
- C# / .NET (5xx examples)
- Borland Delphi (4xx examples)
- JAVA
- PHP / ASP
- other examples that do not directly use SDK functions (all 9xx examples)



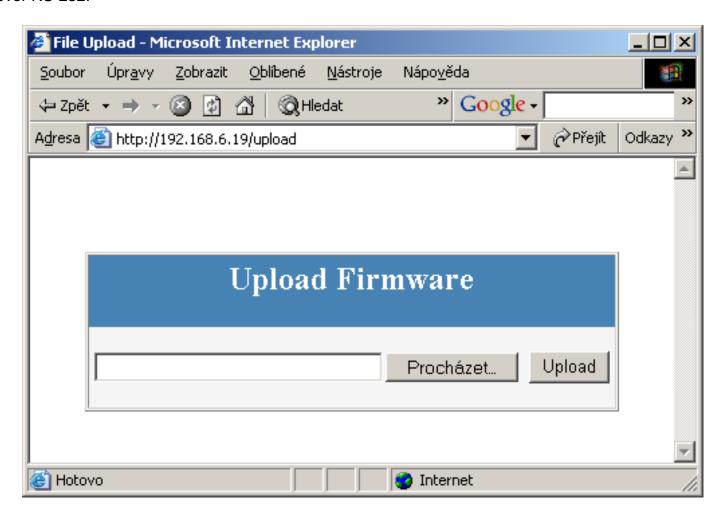
Note:

The latest version of HWg-SDK is available for download at the HWg website. You just need to register your e-mail.

Updating the firmware over the WEB

Upload the .hwg firmware file over http to http://x.x.x.x/upload/.

Connection problems etc. must be avoided during file transfer. If the update fails, upload the firmware over RS-232.



Firmware in the .HWg format is available at our website, or on the supplied CD.

Restoring factory defaults

To restore the factory default configuration (including deleting all passwords):

- 1) Turn the device off by disconnecting power.
- 2) Set DIP1 to ON.
- 3) Turn the device on.
- 4) Toggle DIP1 several times during the first 5 seconds after powering up.

TIP

• For a detailed product description, see the detailed Poseidon family manual.



Contact

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http://www.HW-group.com