

Poseidon2 4002

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

Czech Republic

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).



RELAY OUTPUTS
Two 50V rated DT relay contacts

POWER OUT
12V power output for sensors

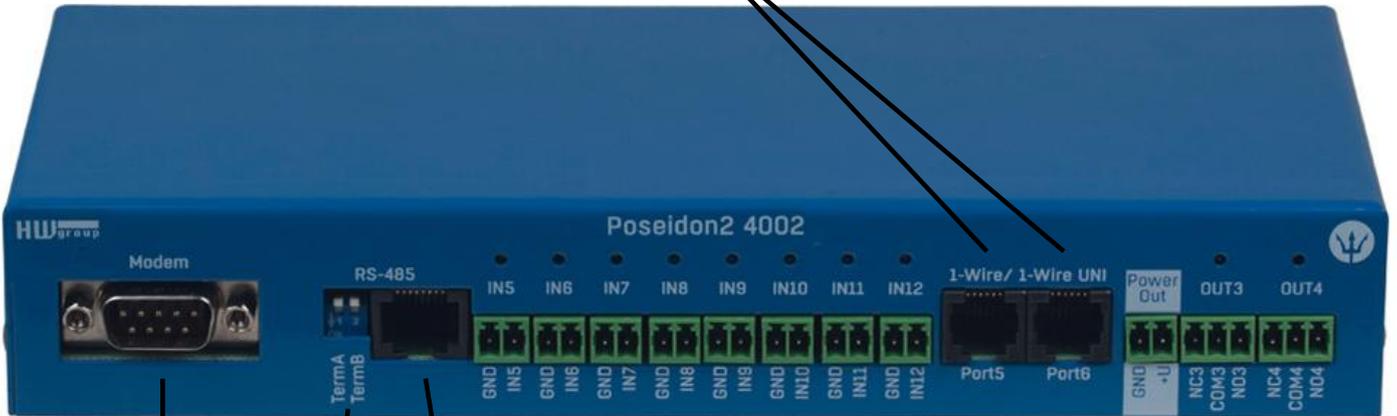
DIGITAL INPUTS
Digital inputs 1–4 for dry contacts

ETHERNET
10 or 100/10 Mbps

POWER input
9-30V supply

DIP switch
Configuration switches
Default is Off, Off

SENSORS 1-Wire/1-Wire UNI
Port1 to Port4 for connecting 1-Wire and 1-Wire UNI sensors



GSM MODEM
RS-232 port to connect a modem

DIGITAL INPUTS
Inputs 5–12 for dry contacts

OUTPUTS
Two 50V rated DT relay contacts

RS-485 Termination
Activates termination of the RS-485 bus

RS-485 bus
For genuine HW group sensors

Power Out
Power output for a GSM modem or detectors

First steps

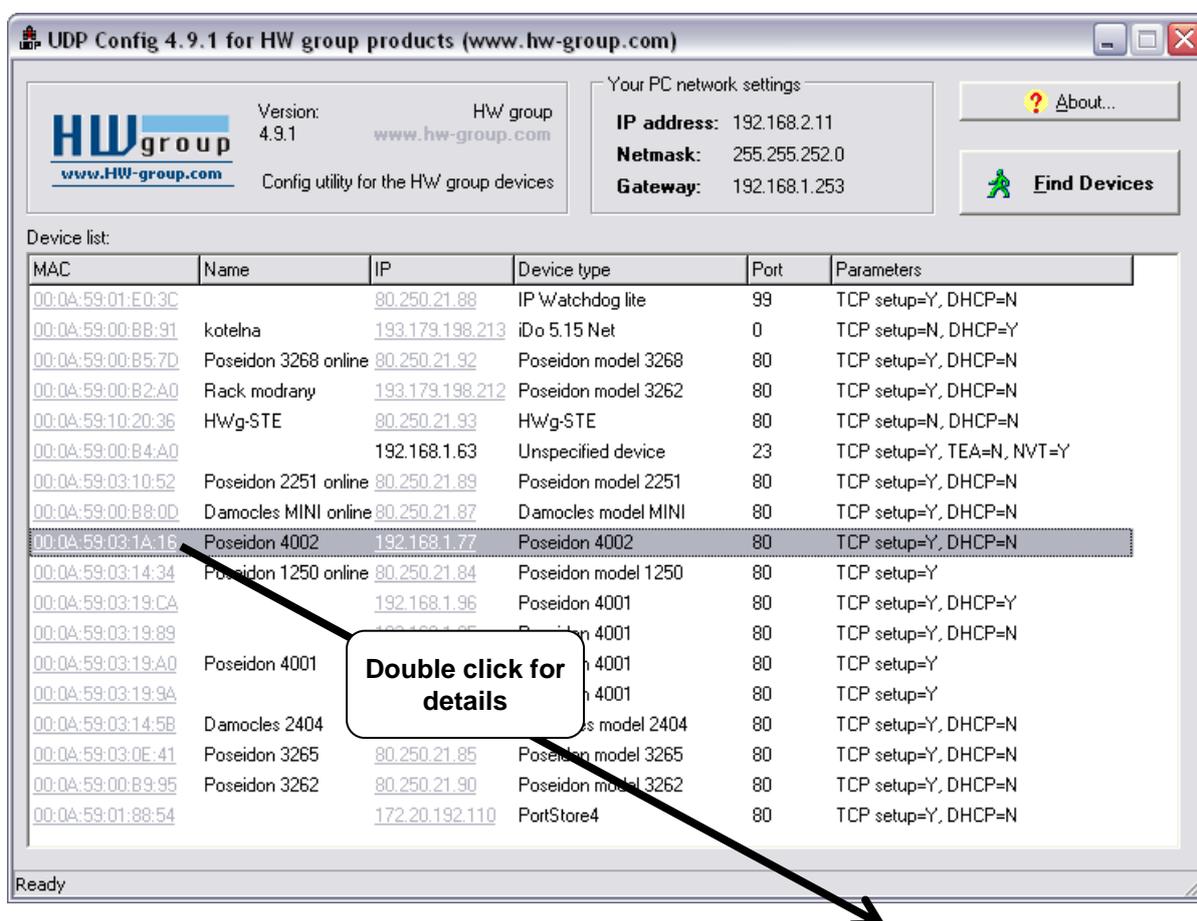
1) Connecting the cables

- Turn the unit and note its MAC address that is printed on the label on the side.
- Set the switches: **DIP1=Off, DIP2=Off**.
- Connect Poseidon to Ethernet (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.

The screenshot shows the 'Details' configuration window for the Poseidon 4002 device. The window is titled 'Details' and has a close button (X) in the top right corner. The settings are organized into several sections:

- Name:** Poseidon 4002
- IP address:** 192.168.1.77
- Port:** 80
- Mask:** 255.255.252.0
- Gateway:** 192.168.1.253
- MAC:** 00:0A:59:03:1A:16
- FW version:** 2.0.4
- Device type:** Poseidon 4002 (26)
- DHCP:** Supported
- Enable DHCP:**
- Enable IP access filter:**
 - IP filter value: 0.0.0.0
 - IP filter mask: 0.0.0.0
- Default values:**
 - Load defaults button
- Enable NVT:**
- Enable TCP setup:** (with an 'Open' button)
- Enable TEA authorisation:**
- Check if new IP address is empty:**
- Buttons:** 'Open in WEB Browser', 'Cancel', and 'Apply changes'.

The status bar at the bottom of the window shows 'Ready'.

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

- **UDP Config for Linux**

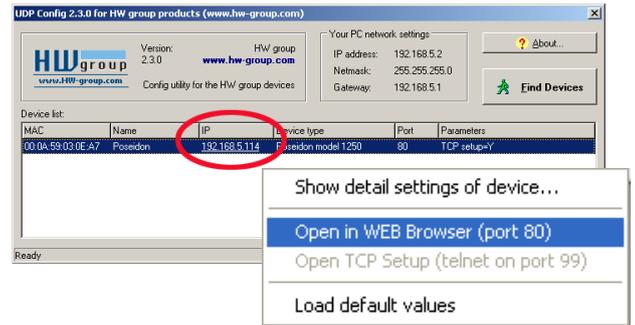
Important:

- 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
 - Click the IP address in UDP Setup



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:** E-mail server, parameters, recipients, test
- **GSM:** Local GSM modem / remote SMS-GW configuration
- **Log & Time:** Time configuration, NTP server
- **Portal:** Connection to a remote portal system
- **Sensors:** Device name, sensor names, status overview
- **Inputs:** Digital Input control, names, alarm parameters
- **Outputs:** Digital Output control, names, local mode
- **System:** Firmware upgrade, save/restore configuration, etc.

DIP2 = ON
Configuration cannot be changed over the network

User-defined names for digital inputs and outputs

Alarm thresholds

Action when value out of range

MIB file for SNMP software

Name	ID	Current Value	Alarm Alert
Binary 1	1	0(Off)	Active if on
Binary 2	2	0(Off)	Active if on
Binary 3	3	0(Off)	Disabled
Binary 4	4	1(On)	Disabled
Binary 5	5	0(Off)	Disabled
Binary 6	6	0(Off)	Disabled
Binary 7	7	0(Off)	Disabled
Binary 8	8	0(Off)	Disabled
Binary 9	9	0(Off)	Disabled
Binary 10	10	0(Off)	Disabled
Binary 11	11	0(Off)	Disabled
Binary 12	12	0(Off)	Disabled

Name	ID	Current Value	Mode
BinOut 1	151	0(Off)	Manual
BinOut 2	52	0(Off)	Manual
BinOut 3	153	0(Off)	Manual
BinOut 4	154	0(Off)	Manual

Name	ID	Current Value	Safe Range	Hysteresis	Alarm Alert
Sensor 240	47636	11.7 % RH	10.0.. 60.0	0.0	Email and SNMP trap
Sensor 241	53270	13.2 % RH	10.0.. 60.0	0.0	Email and SMS
Sensor 242	56342	10.4 % RH	10.0.. 60.0	0.0	EMAIL
Sensor 243	65285	0 %	0.0.. 100.0	0.0	SNMP trap
Sensor 244	1496	31.1 °C	10.0.. 60.0	0.0	Disabled
Sensor 245	7130	27.3 °C	10.0.. 60.0	0.0	Disabled
Sensor 246	5902	32.6 °C	10.0.. 60.0	0.0	Disabled

General Setup

Device
Name: Poseidon2 4002

Network Settings
IP Address: 192.168.6.6
Submask: 255.255.255.0
Gateway: 192.168.6.1
Primary DNS: 192.168.6.1
Secondary DNS: 192.168.1.253
HTTP Port: 80
TCP Telnet Setup: 99
DHCP Client:

IP Access Filter
Access to IP Address Value IP Mask Range
HTTP 0.0.0.0 0.0.0.0
SNMP 0.0.0.0 0.0.0.0

Other settings and information
Display temperature in: Celsius [°]
HW Security Protection: Disabled

User Passwords

	User Name	Password
Read Only:	<input type="text"/>	<input type="text"/>
Read Only + Outputs:	<input type="text"/>	<input type="text"/>
Read and Write:	<input type="text"/>	<input type="text"/>

Annotations:
- Device name, e.g. "First floor 1"
- Three levels of passwords for device security.

SNMP

General SNMP Settings
SNMP Port: 161

SNMP Access

Community	Read	Write	Enable
public	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
private	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

SNMP Trap Destinations

Destination	Community	IP Address	Port	Enable
A.	public	192.168.1.242	163	<input checked="" type="checkbox"/>
B.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
C.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
D.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
E.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

MIB II System Group
SysContact: support@HWgroup.cz
SysName: Poseidon2 4002
SysLocation: Home

Annotation:
- 5 destinations for SNMP Traps

E-mail

Poseidon2 4002 EMAIL

Email Settings

SMTP Server: [] [IP Address or DNS Name]
 SMTP port: 25
 Email Sender Address: []
 Authentication:
 Secure TLS mode:
 Name/Password: [] / []
 Email Subject Text: Pokus

Email Destinations

Alarm Email Recipient: []
 Alarm Email Copy: []
 Periodic Log Recipient: []

Test Email

State: 250 2.0.0 Ok: queued as 5084922021E

Send Test Email

Periodic Status Settings

Periodical Status: Period: 5 [minutes]
 Alarm reminder: Period: 3 [minutes]

Apply Changes

Inserts this text at the beginning of the e-mail subject line

Up to 5 recipients for alarm e-mails

Sends a test e-mail and shows the connection log

E-mail test result

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:

- 1) Correct **Gateway IP** address
- 2) **DNS server** in network settings
- 3) **SMTP server** and port
- 4) **Authentication** turned on, correct **username** and **password**
- 5) **Spam filter** for your mailbox is disabled

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

GSM

The screenshot shows the 'GSM' configuration page in the Poseidon2 4002 web interface. The left sidebar contains a menu with 'GSM' selected. The main content area is divided into several sections: 'Serial Port Settings' (Port Function: Disabled), 'SOAP Destination' (IP Address or DNS Name: 192.168.1.36, Link /Path: service.xml, Port: 80, Enable: checked), 'GSM SMS Interface' (GSM Function: Remote, SMS + Ring When Alarm: unchecked, RS-232 GSM Module: Not enabled, SMS Center Number: empty, Remote Destination: Remote Server A), and 'GSM SMS Recipients' (Alarm SMS Recipient 1-5: empty fields, Send Test SMS button). Callouts provide instructions: 'To send text messages using a local GSM modem (RS-232), select "GSM modem" and set GSM function to "Local".', 'IP address of "HWg-SMS-GW" to use for sending text messages (SMS)', and 'Recipients' phone no's'. An 'Apply Changes' button is at the bottom left.

Log & Time

The screenshot shows the 'LOG AND TIME' configuration page in the Poseidon2 4002 web interface. The left sidebar contains a menu with 'Log & Time' selected. The main content area is divided into three sections: 'Date and Time' (Current Date: 22.01.2014, Current Time: 19:32:23), 'Time Synchronization' (SNTP Server: time.nist.gov, Time zone: +1hour, Synchronize Time button), and 'Device Logger Settings' (Log period: 60 [s], Logfile capacity: 16days, 11hours and 11minutes, Report Log Period: 24 [h], Erase log after e-mail: checked, Open log File, Clear log File buttons). Callouts provide instructions: 'Press the button to synchronize time', 'Interval for logging measured values', 'Expected size of recorded data', 'Frequency of sending the log file in e-mail', and 'Opens the log file in the browser as text'. An 'Apply Changes' button is at the bottom left.

Portal

Portal Message

SensDesk.com: Check sensor online. ← Message from the portal

Portal

Portal Enable: ← Enable connection to the remote portal

Push Period: 30 [s] 0=Disable

Server Address: www.sensdesk.com/portal.php

IP Port: 80 Default 80

User Name: _____

Password: _____

Current Push Timer: 8

Current Log Timer: 8

Current Autopush Block Timer: 0

Manual Push ← Click to connect to the portal

Sensors autopush config

Name	ID	Current Value	Autopush
Sensor 240	47636	12.3 %RH	0.0
Sensor 241	53270	14.1 %RH	0.0
Sensor 242	56342	10.7 %RH	0.0
Sensor 243	65285	0 %	0.0
Sensor 244	41496	30.0 °C	0.0
Sensor 245	47130	25.9 °C	0.0
Sensor 246	50202	31.9 °C	0.0

Dry Contact Inputs autopush config

Name	ID	Current Value	Autopush
Binary 1	1	0(Off)	<input type="checkbox"/>
Binary 2	2	0(Off)	<input type="checkbox"/>
Binary 3	3	0(Off)	<input type="checkbox"/>
Binary 4			<input type="checkbox"/>
Binary 5			<input type="checkbox"/>
Binary 6			<input type="checkbox"/>
Binary 7			<input type="checkbox"/>
Binary 8			<input type="checkbox"/>
Binary 9	9	0(Off)	<input type="checkbox"/>
Binary 10	10	0(Off)	<input type="checkbox"/>
Binary 11	11	0(Off)	<input type="checkbox"/>
Binary 12	12	0(Off)	<input type="checkbox"/>
Comm Monitor 1	123	1(On)	<input type="checkbox"/>

AutoPush configuration
We recommend 2°C for temperature and 5%RH for humidity.

Apply Changes

Configures the communication with the portal using the HWg-Push protocol. Poseidon2 is the active side 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:

- 1) Correct **Gateway IP** address
- 2) **DNS server** in network settings
- 3) Correct **Server Address** of the portal

Sensors

Poseidon2 4002

Sensors

Name	Safe Range	Hysteresis	Delay [s]	SNMP Trap	Email	SMS
Sensor ID: 47636 Code: Value: 12.0 %RH	Sensor 240 10.0 .. 60.0	0.0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sensor ID: 53270 Code: Value: 14.1 %RH	Sensor 241 10.0 .. 60.0	0.0	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sensor ID: 56342 Code: Value: 10.7 %RH	Sensor 242 10.0 .. 60.0	0.0	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sensor ID: 65285 Code: Value: 0 %	Sensor 243 10.0 .. 60.0	0.0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sensor ID: 41456 Code: Value: 37.0 °C	Sensor 244 10.0 .. 60.0	0.0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sensor ID: 47130 Code: Value: 25.9 °C	Sensor 245 10.0 .. 60.0	0.0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sensor ID: 50202 Code: Value: 32.0 °C	Sensor 246 10.0 .. 60.0	0.0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

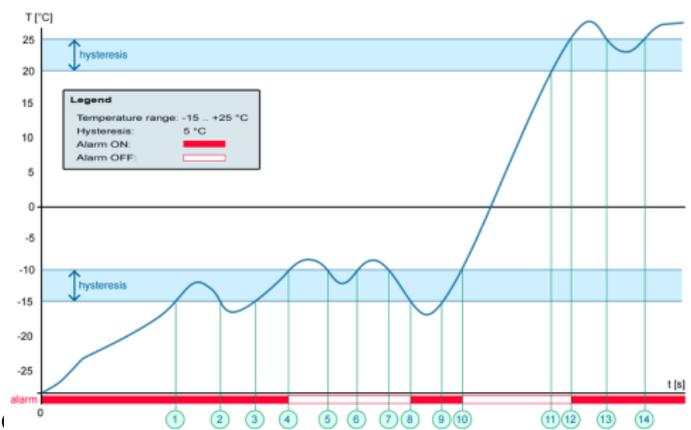
Annotations:

- Range of allowed values. If exceeded, alarm is signaled.
- Sends a **SNMP trap** if the "Safe Range" for this sensor is exceeded
- Sends an **E-mail** if the "Safe Range" for this sensor is exceeded
- Sends a **text message (SMS)** if the "Safe Range" for this sensor is exceeded
- Sensor name will be shown in e-mails, text messages, or SNMP traps
- Scans connected sensors and displays detected

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

To avoid numerous false alerts (by e-mail or SMS) whenever the reading fluctuates around the threshold, you can use:

- 1) Hysteresis Idle Range**
Tolerance band around the "Safe Range". Prevents multiple alarm alerts.
- 2) Delay [s]**
Delays the information about alarm beginning and alarm end by a specified time. Can be used for



Tip: For details, see the complete "Poseidon2 family" manual.

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

Inputs



Poseidon

Poseidon2 4002

INPUTS

Dry Contact Inputs

Name	ID	Current Value	Alarm State	Delay [s]	Out of Safe Range SNMP Trap	Out of Safe Range Email & SMS
Binary 1	1	0(Off)	Active if on ▼	5	<input type="checkbox"/>	<input type="checkbox"/>
Binary 2	2	0(Off)	Active if on ▼	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Binary 3	3	0(Off)	Disabled ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
Binary 4	4	1(On)	Disabled ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
Binary 5	5	0(Off)	Disabled ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
Binary 6	6	0(Off)	Disabled ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
Binary 7	7	0(Off)	Disabled ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
Binary 8	8	0(Off)	Disabled ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
Binary 9	9	0(Off)	Disabled ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
Binary 10	10	0(Off)	Disabled ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
Binary 11	11	0(Off)	Disabled ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
Binary 12	12	0(Off)	Disabled ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
Comm Monitor 1	123	1(On)	Disabled ▼	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Enter Digital Input name, will be shown in e-mails, text messages or SNMP traps

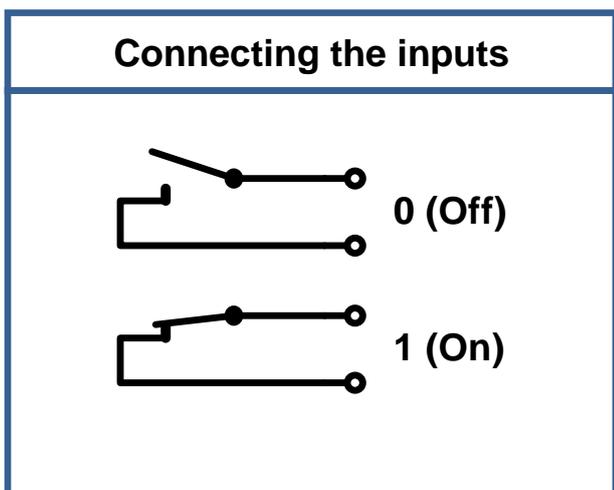
ALARM CONTACT STATUS:

- **Active if On**
Alarm when the contact closes (1 = On)
- **Active if Off**
Alarm when the contact opens (0 = Off)
- **Disabled**
No Alarm

Reaction to digital inputs:

- **Disabled**
- Send a **SNMP Trap**
- Send an **E-mail**
- Send a **SMS**

Apply Changes



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.

TIP

- **Poseidon family manual**
For a detailed description of all settings and configuration tabs, see the “Poseidon family” manual on the WEB or on the installation CD.

Outputs

Poseidon2 4002 OUTPUTS

Relay Outputs

Name	ID	Current Value	Output Control	Trigger Value	Depend on
BinOut 1	151	0(Off)	<input type="radio"/> Manual <input checked="" type="radio"/> Local Cond.	On if value higher than Trigger 25	Temperature Ind(36124)
BinOut 2	152	0(Off)	<input type="radio"/> Manual <input checked="" type="radio"/> Local Cond.	On if value equal to Trigger 1	Comm Monitor 1(123)
BinOut 3	153	1(On)	<input checked="" type="radio"/> Manual <input type="radio"/> Local Cond.	Change to Off	
BinOut 4	154	0(Off)	<input checked="" type="radio"/> Manual <input type="radio"/> Local Cond.	Change to On	

Manual mode:
Output controlled over the WEB or M2M protocols

Local Condition mode:
Controls the output according to the specified sensor

Choose the **output mode**

Apply Changes

Output mode:

A) **Manual**

Output can be controlled using the Web interface or externally using M2M protocols. The output cannot be used in “thermostat” mode – local condition.

B) **Local Condition**

The output cannot be controlled over the Web, it is controlled by the local condition. The output is read-only for all M2M protocols. Hysteresis in the sensor settings applies.

The output cannot be controlled remotely.

- **On if any alarm**
The output is active if at least one input or sensor is in alarm.
- **On if value equal to Trigger**
The output is active if the selected sensor reading **is equal to** the “Target Value”.
- **On if value higher than Trigger**
The output is active if the selected sensor reading **is greater than** the “Target Value”.
- **On if value lower than Trigger**
The output is active if the selected sensor reading **is less than** the “Target Value”.
- **Dependent On** – sensor / input to which the condition applies.

System

Poseidon2 4002 SYSTEM

Communication Monitor

Modbus:
 XML/HTTP:
 SNMP:
 Time: 0 [s]

Configuration

Load Configuration: Procházeč Soubor nevybrán. Upload
 Save Configuration: Download

System

Uptime: 2 days, 0 hours, 15 minutes Restart Device
 Factory Default: Set Default Config
 Device FirmWare: 1.0.12 Update FW

Apply Changes

Protocols and timeout for the communication monitor

Loads the configuration XML file to Poseidon2 from the PC

Uploads new firmware from the PC

Configuration

- **Download** – Retrieve the configuration from the device and store it on the PC.
- **Upload** – Restore a configuration from the PC to the device.

System

- **Restart Device** – Reset the device over the WEB interface.
- **Set Default Config** – Restore factory-default settings.
- **Upgrade FW** – Upload new firmware to the device.

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.

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

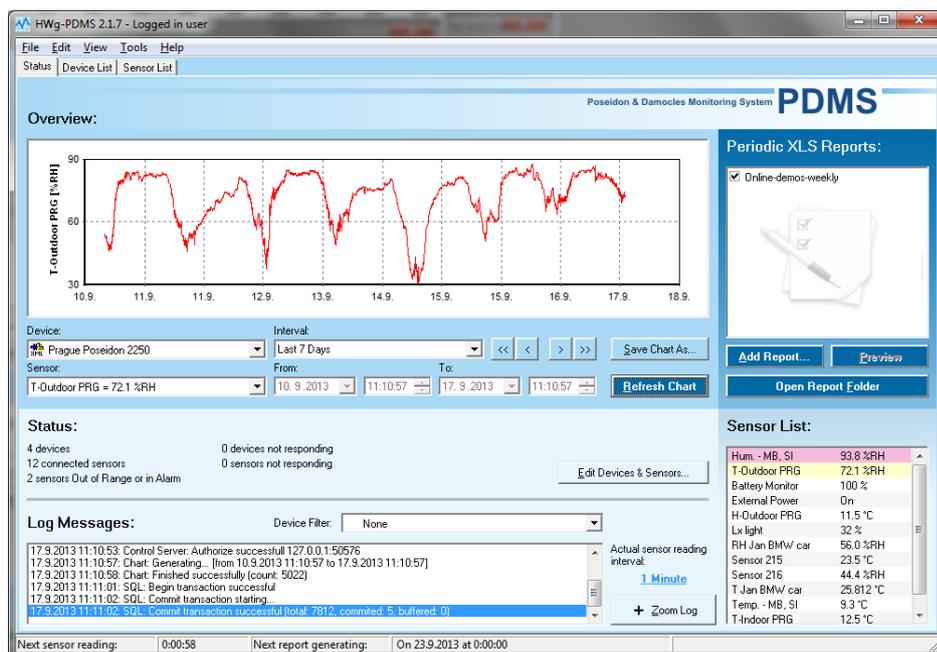
Software Applications

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 retrieved 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

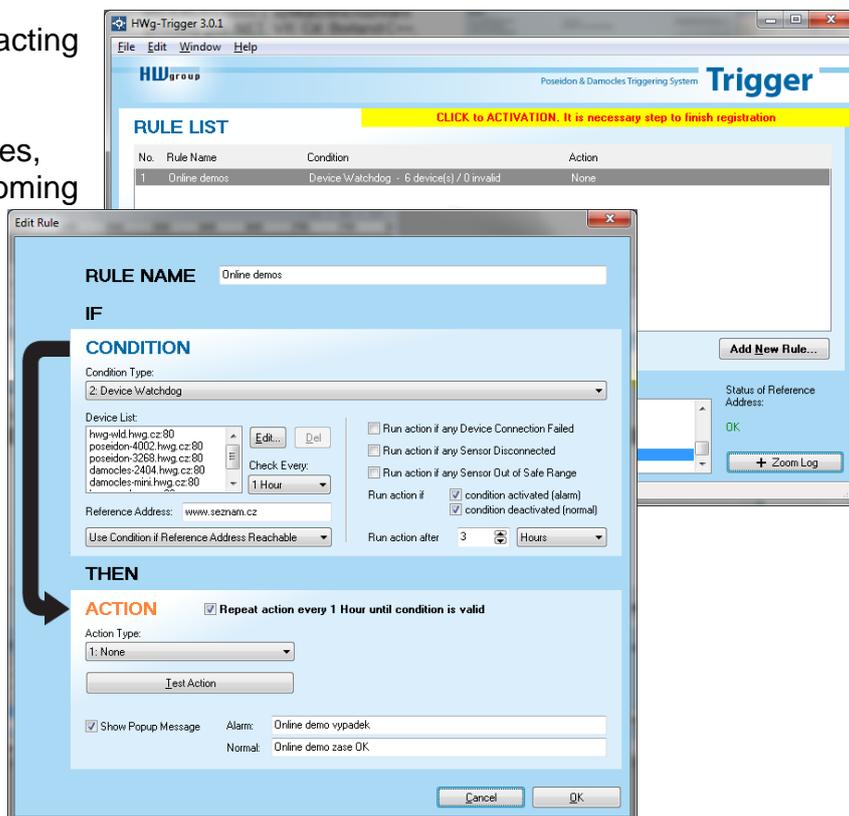
HWg-Trigger

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.

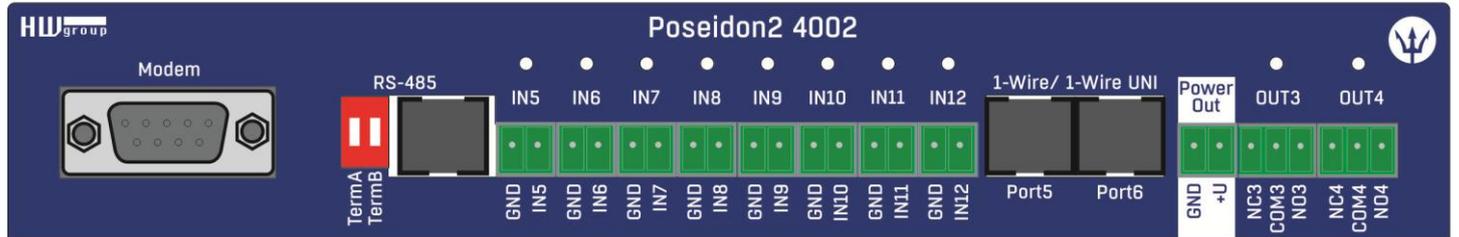
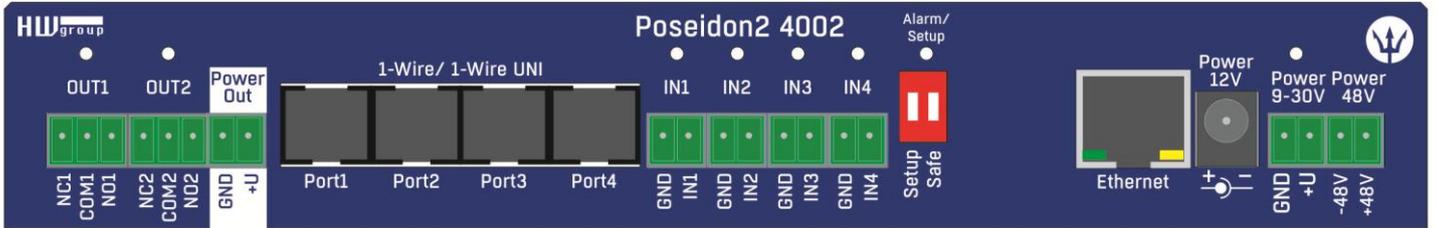
Other responses include displaying a warning message in Windows, starting an application, or shutting down the computer.



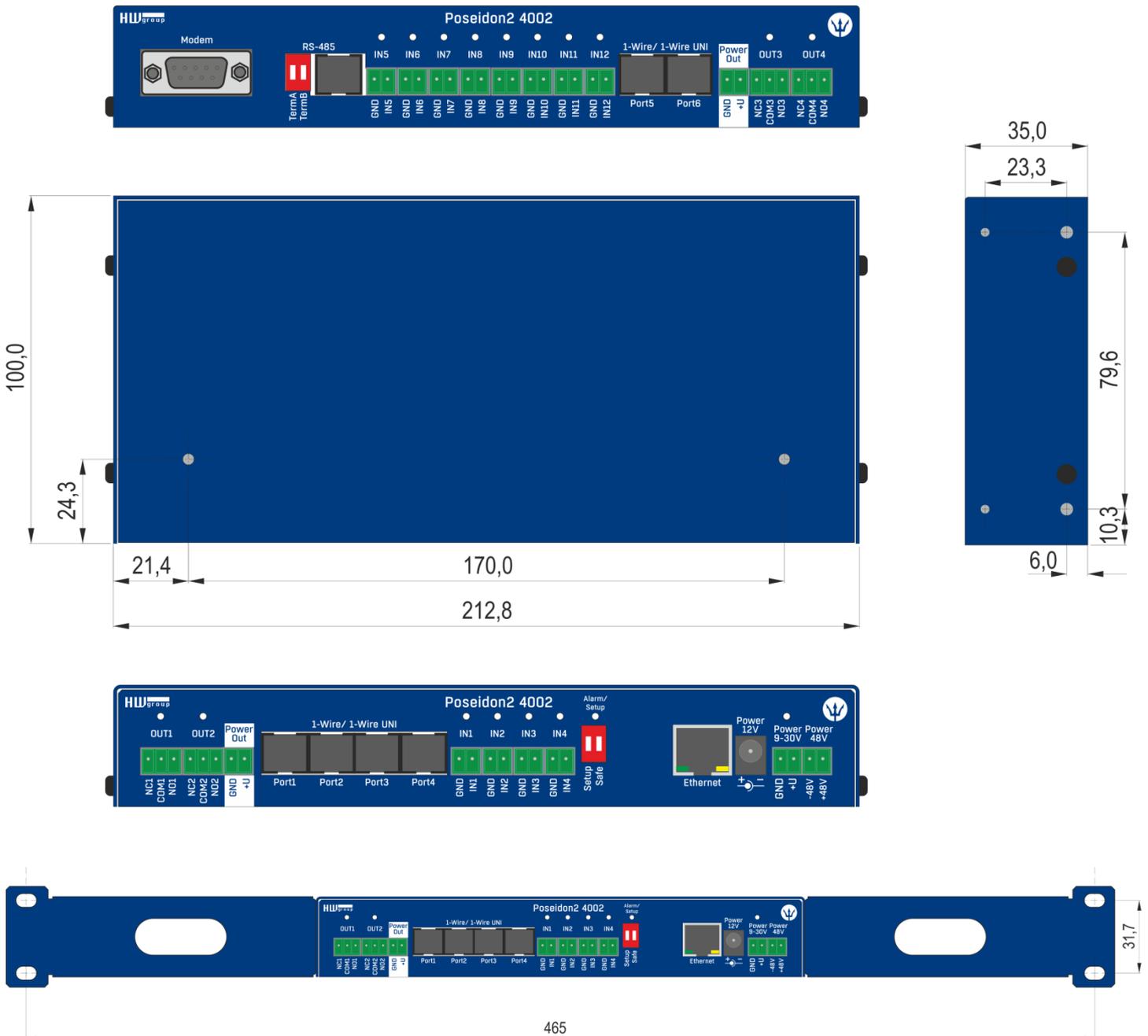
License: 30-day trial version free of charge

Specifications

OVERVIEW	
LAN 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
Internal Logger	250,000 records in flash memory (logged items: Sensors, DI, DO)
SENSORS 1-Wire	
Type	HW group original accessories: 1-Wire & 1-Wire UNI
Active ports / distance	6xRJ11, max distance 60m per each RJ11 active port
Sensors	Up to 16 sensors in total (temperature + humidity combo sensors count as 2 sensors)
SENSORS RS-485	
Type	HWg original accessories
Connector / distance	RJ45 + 2x DIP for termination / Max distance 1000m
Sensors	Up to 26 sensors in total (temperature + humidity combo sensors count as 2 sensors)
DI (Digital Inputs for Dry Contacts)	
Port / type	IN1-IN12 / Digital Input (supports NO/NC Dry contact)
Sensitivity	1 (On) = 0-500 Ω (Max. distance up to 50m)
DO - OUTPUTS	
Port / type	OUT1 - OUT4 / Relay contacts (NC-COM-NO)
Max. voltage / load	60V AC/DC, Max 1A, up to 60VA/24W (0.5A/48V)
State	Power up state (no state restart memory)
RS-232 interface	
External GSM modem	Connect external GSM modem
POWER input	
Port	POWER 9-30V DC
Power input	9-30V DC / 2,5W (typically 250 mA) Connectors: Jack (barrel, inner 2.1 mm outer 5.1 mm) + Terminal Block
POWER output	
Voltage	Power Out = Power IN (9–30V)
Current / Connector	Max. 150mA / 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 / Outputs	Green / 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
Physical parameters	
Temperature range	Operating: -30 to +85 °C (-22 to +185 °F) / Storage: -35 to +85 °C (-31 to +185 °F)
Dimensions / Weigh	100 x 213 x 35 [mm] / 225 g
EMC	FCC Part 15, Class B, CE - EN 55022, EN 55024, EN 61000



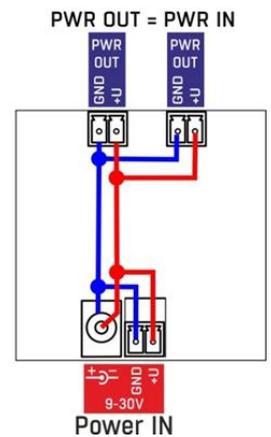
Dimensions



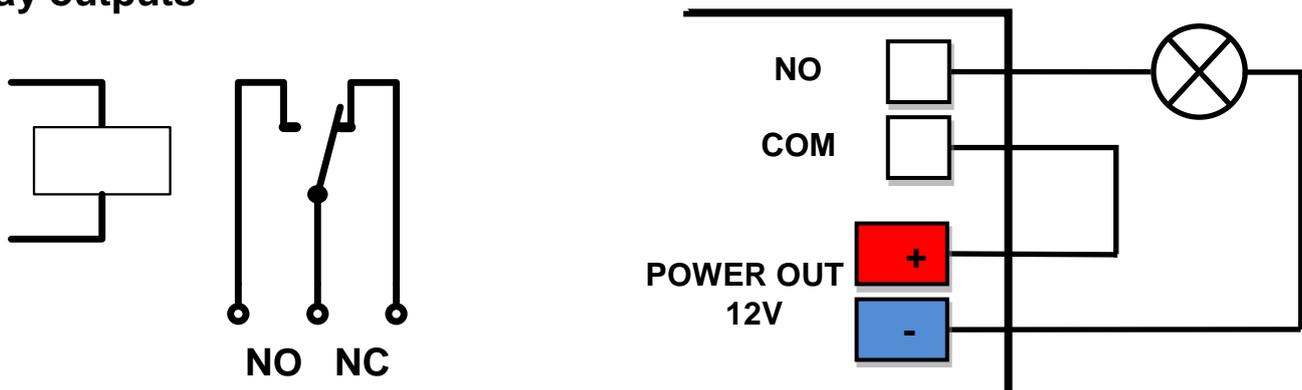
Power output

Poseidon2 4002 features the PWR OUT terminals for powering connected sensors and detectors. For example a smoke detector.

PWR OUT voltage is the same as the Poseidon2 4002 supply voltage!



Relay outputs

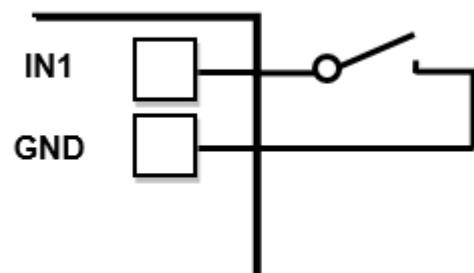


- NO and NC labels apply to Off (0) state, or device turned off
- When the output is On (1), a “**Normally Open**” (NO) relay contact is closed
- **LEDs:** Contact state (closed / open) is indicated by a LED
- **Isolation:** The double-throw contact is electrically isolated from the rest of the device
- **ID range:** Outputs use ID addresses from 151 to 180

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 ID addresses 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)

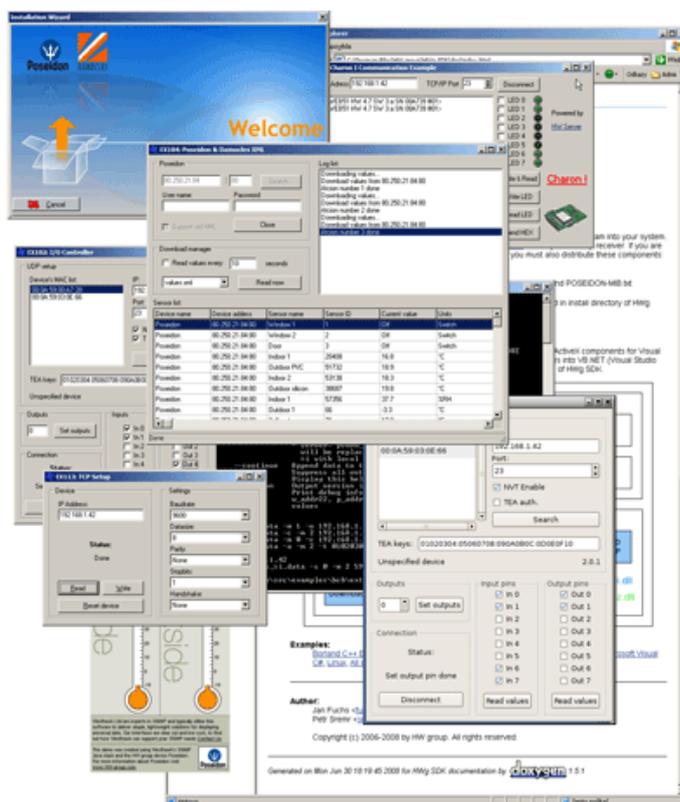
TIP

- For a detailed description of the M2M communication interface and other details, see the **detailed Poseidon family manual**.

SDK (Software Development Kit)

Programmers can take advantage of the **HWg SDK** (Software Development Kit) with ActiveX interface and ready-made examples.

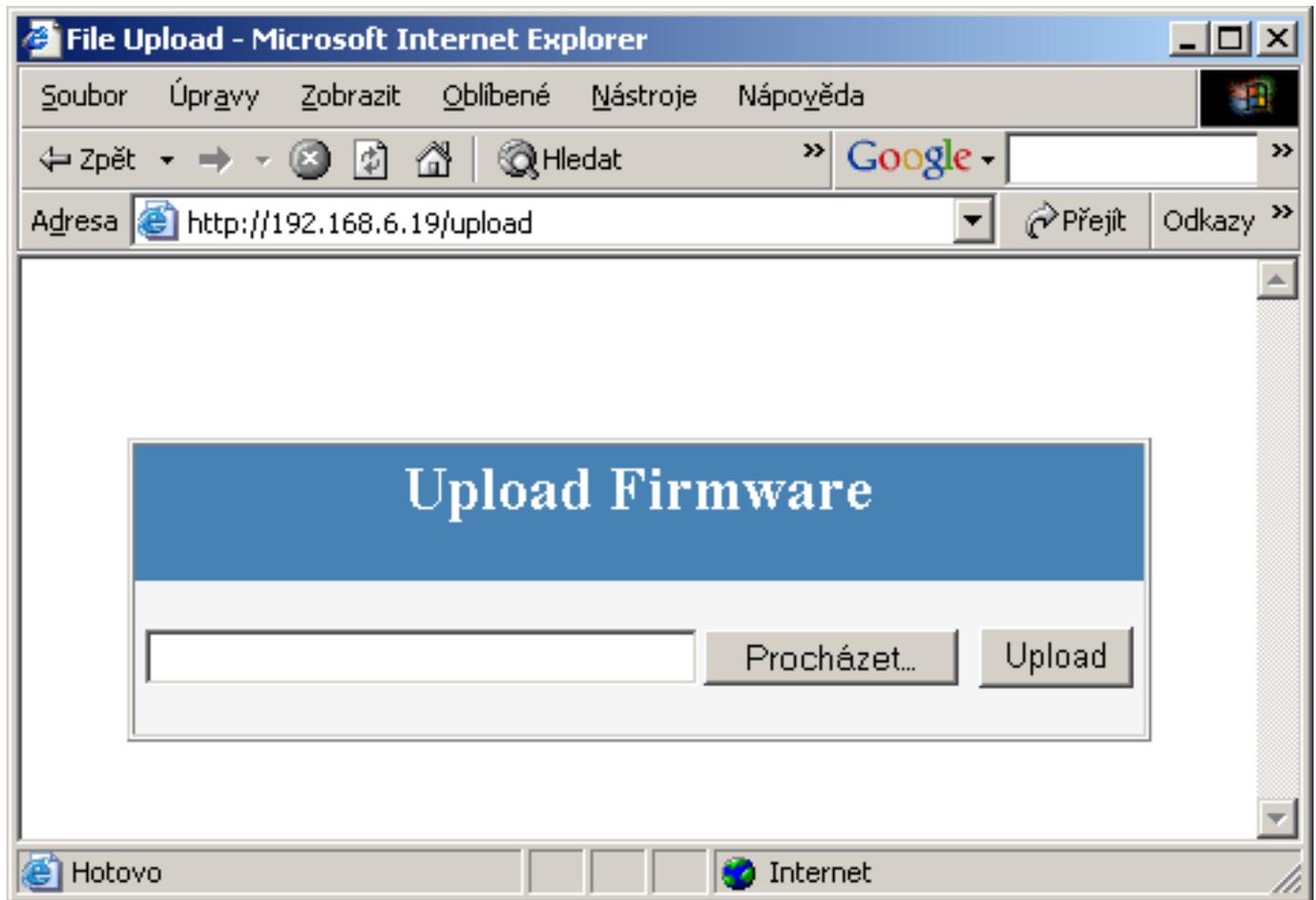
- VB - **Visual Basic (6.0)** - (3xx examples)
- Borland C++ (1xx examples)
- Microsoft Visual C++ (2xx examples)
- C# / .NET (5xx examples)
- Borland Delphi (4xx examples)
- JAVA
- PHP / ASP
- **other** examples that do not directly use SDK functions (all 9xx examples)



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 must be avoided during file transfer.



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**.

Mounting on a wall



Mounting on a DIN rail



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