

Poseidon2 3468 MANUAL



Package contents

A complete shipment contains the following items:

- Poseidon2 3468
- Printed manual + datasheet

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: <u>support@HWg.cz</u>

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).







First steps

1) Connecting the cables

- Turn the unit upside down and write down its MAC address that is printed on the label.
- 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 Poseidon2 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 <u>www.HW-group.com</u> <u>Software</u> > <u>UDP Config</u>.

- Click the icon to launch **UDP Config**. The program automatically looks for connected devices.
- Automatic device discovery works only in the local network.
- Individual Poseidon2 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.

HWgro	Version: 4.9.1	HW www.hw-group	group .com	ork settings : 192.168.2 255 255 2		? About
www.HW-group.	com Config utility	for the HW group de	evices Gateway:	192.168.1	.253	👌 <u>F</u> ind Devices
Device list:						
MAC	Name	IP	Device type	Port	Parameters	
00:0A:59:01:E0:3C		80.250.21.88	IP Watchdog lite	99	TCP setup=Y	/, DHCP=N
00:0A:59:00:BB:91	kotelna	<u>193.179.198.213</u>	iDo 5.15 Net	0	TCP setup=N	I, DHCP=Y
00:0A:59:00:B5:7D	Poseidon 3268 onlin	e <u>80.250.21.92</u>	Poseidon model 3268	80	TCP setup=Y, DHCP=N	
00:0A:59:00:B2:A0	Rack modrany	<u>193.179.198.212</u>	Poseidon model 3262	80	TCP setup=Y, DHCP=N	
00:0A:59:10:20:36	HWg-STE	<u>80.250.21.93</u>	HWg-STE	80	TCP setup=N	I, DHCP=N
00:0A:59:00:B4:A0		192.168.1.63	Unspecified device	23	TCP setup=Y	′, TEA=N, NVT=Y
00:04:59:03:10:52	Poseidon 2251 onlin	e <u>80.250.21.89</u>	Poseidon model 2251	80	TCP setup=Y	', DHCP=N
00:0A:59:00:B8:0D	Damocles MINI onlin	ne <u>80.250.21.87</u>	Damocles model MINI	80	TCP setup=Y	/, DHCP=N
00:0A:59:03:1A:16	Poseidon 4002	<u>192.168.1.77</u>	Poseidon 4002	80	TCP setup=Y	', DHCP=N
00:0A:59:03:14:34	Poseidon 1250 onlin	e <u>80.250.21.84</u>	Poseidon model 1250	80	TCP setup=Y	,
00:0A:59:03:19:CA		<u>192.168.1.96</u>	Poseidon 4001	80	TCP setup=Y	', DHCP=Y
00:0A:59:03:19:89		100100100		80	TCP setup=Y	', DHCP=N
00:0A:59:03:19:A0	Poseidon 4001	Double clic	k for 4001	80	TCP setup=Y	,
00:0A:59:03:19:9A		details	h 4001	80	TCP setup=Y	,
00:0A:59:03:14:5B	Damocles 2404		s model 2404	80	TCP setup=Y	', DHCP=N
00:0A:59:03:0E:41	Poseidon 3265	80.250.21.85	Poseidon model 3265	80	TCP setup=Y	', DHCP=N
00:0A:59:00:B9:95	Poseidon 3262	<u>80.250.21.90</u>	Poseidon model 3262	80	TCP setup=Y	', DHCP=N
00:0A:59:01:88:54		<u>172.20.192.110</u>	PortStore4	80	TCP setup=Y	', DHCP=N
ady.					\mathbf{h}	

Poseidon2 34	68
DIP1: ON = RS-232 Setup 96	00-8N1
DIP2: ON = HW SECURITY N	NODE
MAC: 00:0A:59:03	3:0C:55
S.N.:	
Input: 520V Relay contact: 5A/110V AC, 24V/5A DC HW group s.r.o. www.HW-group.com MADE IN CZECH REPUBLIC	Vcc 12-24V DC I _{bp} : 0.6A = + E CE

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.

etails		(
Name:	IP address:	Port:
Poseidon 4002	192.168.1.77	: 80
🥭 Open in WEB Browser	Enable DHCP	
Mask:	MAC:	
255.255.252.0	00:0A:59:03:1A:16	
Gateway:	FW version:	
192.168.1.253	2.0.4	
- 🔲 Enable IP access filter	Device type:	
IP filter value:	Poseidon 4002 (26)	
	DHCP:	
IP filter mask:	Supported	
0.0.0.0	🔲 Enable NVT	
,	Enable TCP setup	<u>O</u> pen
Default values	Enable TEA, authorisa	tion
🚀 Load <u>d</u> efaults		
	Check if new IP addre	ess is empty
X Cancel	C Apr	oly changes

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 Config
 - Click the underlined IP address in the **UDP SETUP utility**
- The WWW page displays current states of devices and sensors.

Web interface of the device

- Overview of current readings General:
- 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
- Sensors: Device name, sensor names, status overview
- Inputs: Control of inputs and alert parameters
- Outputs: Control and mode configuration of outputs
- System: Firmware upgrade, save/restore configuration, etc.





E-mail

	Poseidon2 3	EAMIL		
	Email Settings			
Poseidon	SMTP Server:	some.smtp.server	[IP Address o	or DNS Name]
General	Email Sender Address: Authentication:	user@domain.com		
General setup	Name/Password:	User login name	/	
SNMP	Email Subject Text:	Subject_0		Inserts the specified text
Email	EMAIL DESTINATIONS			at the beginning of the e-mail subject line
GSM & RFID	Alarm Email Recipient: Alarm Email Conv:	To0@domain.com To1@domain.com	(
Log & Time	Alarm Email Copy:	To2@domain.com		
Sensors	Alarm Email Copy: Alarm Email Copy:	To4@domain.com		
Inputs	Periodic Log Recipient:	To5@domain.com		
Outputs	Test Email			
System	State:	Sends a test e-mail a	and	
Restart		shows the connection	log	Send Test Email
	PERIODIC STATUS SETTINGS			
Apply Changes	Periodical Status: Alarm reminder:	Period: 60 Period: 5	(minutes) (minutes)	

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

	Poseidon2 3468	GSM AND RFID	
Deseiden	Serial Port Settings	RFID Settings	
PUSEIUUII	Port Function: Disabled -	Remote Destination:	Remote Server A 👻
General	SOAP DESTINATION		
General setup	SOAP Server	Link /Path	Port Enable
SNMP	A.		
Email	0011 0110 1		
GSM & RFID	GSM SMS INTERFACE	IP address	of "HWg-SMS-GW"
Log & Time	GSM Function: Remote - SMS + Ring When Alarm:	to us	e for sending essages (SMS)
Sensors	Remote Destination: Remote Server	A •	
Inputs	GSM SMS RECIPIENTS	Re	cipients' phone no's
Outputs	Alarm SMS Recipient 1:		
System	Alarm SMS Recipient 2: Alarm SMS Recipient 3:		
	Alarm SMS Recipient 4:		
Restart	Alarm SMS Recipient 5:		Send Test SMS
Apply Changes			

Log & Time

	Poseidon2 3468	Log and Time
Poseidon	Date and Time Current Date: 01.01.1970 [dd.mm.yyyy] Current Time: 01:00:00 [24 hour format]	Press to synchronize the time with the specified
General		
General setup	SNTP Server: time.nist.gov	[IP Address or DNs Name]
SNMP Email	Time shift to server time (GMT): +1hour •	[If you are in different zone]
GSM & RFID	DEVICE LOGGER SETTINGS	Synchronize Time
Log & Time	Store all actual sensor values to the logfile every 300	[\$]
Sensors	Total estimated logfile capacity is 215 days, 4 hou Report Log Period [h] 1	urs and 50 minutes Erase log after e-mail 🗹
Inputs	Open log File Clea	ar log File
System		
Restart		
Apply Changes		

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.

TIP



Inputs

		P	OSEIDON2 3	3468						INPU
Duce	idon	Di	ry Contact Inputs					Out of Safe	Out of	Safe
	aon		Name	ID	Current Value	Alarm State	Delay[s]	Range SNMP Trap	Ran Email 8	ge SMS
General			Binary 1	1	0(Off)	Active if on 👻	0		V	
General set	In		Binary 2	2	0(Off)	Active if off 👻	0			
oonerar ood	ар —		Binary 3	3	0(Off)	Disabled 👻	0			
SNMP			Binary 4	4	0(Off)	Disabled 👻	0			
Empil			Comm Monitor 1	123	0(Off)	Disabled 👻	0			
GSM & RFID Log & Time							_			
Sensors Inputs	Enter sens shown message	sor n in e- s or	ame – will be mails, text SNMP traps	ALARM C • Active	ONTACT ST	TATUS:	Rea • [ction to dig Disabled	gital in	puts:
Outputs				closes	(1 = On)					þ
System Restart				• Active Alarm v opens	if Off when the cor (0 = Off)	ntact	• •	Send a SMS	S	
Apply C	hanges			• Disable No Ala	ed rm					





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

Poseidon family manual

For a detailed description of all settings and tabs, see the "**Poseidon family**" manual. Available on the web or the installation CD.

Outputs

	Poseidon2 3468	Outputs
Ψ	Choose the output	node
Poseidon	Name ID Current Value	Output Control Target Value Depend on
General	Relay 1 151 1(On) © Manual © Local Conditi	Change to Off on On if appendix 0.0 none
General setup	Relay 2 152 0(Off) [©] Manual OLocal Condition	Change to On on On if value higher than Trigger 26.0 Temperature(37656)
Email		
GSM & RFID		
Log & Time	Manual mode:	Local Condition mode:
Inputs	Output controlled over the WEB or M2M protocols	Controls the output according to the specified sensor
Outputs		
System		
Restart		
Apply Changes		

Output mode:

A) Manual

Output <u>can</u> be controlled using the Web interface or externally using M2M protocols. The output <u>cannot be used in "thermostat" mode</u> – local condition.

B) Local Condition

The output <u>cannot</u> be controlled using the Web interface, it is controlled by the local condition. The output is read-only for all M2M protocols. Hysteresis configured 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.

HW group

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.

Det Lanci								
1: 77	pot X-Y	P.196	Get actual values and print list fet output X (164) to value Y OB, 1. 007, 000 File with configuration for uploading to the					
-v,pa -1,ta -1,ta -1,ta -1,pa	and Mildes by Siler.3 a Deta.121 r USS round PED	NURD		File to there actual values and SUL foreat File to there actual values and Sucretian File to there actual values that foreat HTF antherization user HTF antherization user				
-h,be en	lp mion mr-level			this hel	p and exit n information an wels and exit	d exit		
peodanio peodanio peodanio peodanio peodanio	-9 192,166 -6 c1-data -9 1+0H 19 -9 1+1 193 -f setup.5	.#.45 2.168.0 .168.0 m3 192	201 - 1 1.41 41 100 339.8	erstetes 18	ealass.sml 192.1	68.8.41		
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Proban/Proll 192.160.1.1 KIT surport stats Proban/Proll 192.160.1.1 KIT surport 192.160.1.1 KIT surport 193.100 MITE 10.001.1920 10.0001.19200 10.0001.19200 10.0001.19200 10.	Providencial (41:00 const 1-1. 00 Providencial (41:00 const al. 00 TIPE 81:05:17 11 11 12 12 12 12 12 12 12 12 12 12 12	pordani ecting orting Enviro Fond Salar 26.4	es 192. es 192. es 201 linis c	-1 192.16 169.1.144 8 86038 84138	Device JP 192.158.1.144 Eafe Bauge 18.0 25.3			
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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.

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Dashboard	SensDesk	× 👽 Poseidon2 3468	× +						
((((((((((.sensdesk.com				🚖 ⊽ C 🔡 ▾ Google	٩		45m	⋒
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	Senspe	SK							
	IPsen	sors portal							
Dashb	oard Devices	Sensors Device gr	oups						
Dash	board								
	Only alarm values		Only sensors with problem with logging	9 Devices in group:	- All Device groups - 💌	APPLY FILT	ER		
HWg	g-STE Push Ja	n Office (ID: 35)							
Se	nsors with unit:	°C (Temperature)							
	Office STE ind. test 30 min 46 sec ago	Office STE Outdoor							
	28.5	31.3							
	- 18	173							Ξ
No. 1	9.5 41.5	47							
	23.7 °C	18.3 °C							
Ares	s14 (ID: 92)								
Se	nsors with unit:	°C (Temperature)	Sensors with unit: % (Percent)	Sensors	with unit: (Switche	es)			
	Office Outdoor	OfficeAr14 Test	Battery Monitor	External Power	Input 1	Input 2			
	28 sec ago		100 - 100	28 sac ago	28 səc ago	28 590 890			
(11.1		1 4.5	ON	1 0.5			
	- 10 60 1	312	25						
	JI 8	11		AS 1.5		,45 1.5			
	15.974 °C	23.062 °C	76 %	O°C	OFF	0°C			
								í	
									-

- 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

Mechanical dimensions



Power output

Poseidon2 3468 features the PWR OUT terminals for powering connected sensors and detectors.

- Powered by 9–30V: PWR OUT = 9–30V
- Powered by 48V: PWR OUT = 12V



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 (1-Wire UNI)
Sensors	Up to 8 sensors in total (temperature + humidity combo sensors count as 2 sensors)
Sensor distance	Up to 60m
	Digital Input (supports NO/NC Dry contact)
Type Sonsitivity	$\frac{1}{(\Omega_{\rm P})} = 0.500 \Omega$
Max distance	l (01) = 0=500 sz
OUTPUTS	
Port / type	OUT1, OUT2 / Relay contacts (NC-COM-NO)
Max, load	max, 24V / 16A DC: max, 250V / 16A AC
State	Power up state (no state restart memory)
POWER input	
Туре	You can power the device from power input 1 or 2.
Power input 1	POWER 9-30V DC – 2,5W
	Jack 9–30V DC (barrel, inner 2.5 mm outer 6.3 mm) + Terminal Block
Power input 2	Terminal Block 48V DC
POWER output	Power input 1 (0.20)(): Power Out - Power $ N $ (0.20)()
Voltage	Power input 1 (9-30V). Power Out = Power IN (9-30V) Power input 2 (48V): Power Out = $12V$
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	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	OFF = Non-secure mode – remote configuration enabled
Physical parameters	
Temperature range	Operating: -30 to +75 °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

Poseidon2 3468 – Manual

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

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. <u>Never connect the inputs to the 48V supply voltage</u>!

- 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 a detailed description of the M2M communication interface and more details, 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)

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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 <u>http://x.x.x.x/upload/</u>.

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

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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.



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



Contact

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