Poseidon2 4002

Secure solution for remote environment monitoring and control of outputs

16 1-Wire UNI sensors	1-Wire UNI sensors
12 DIGITAL input	Digital Input
26 RS-485 INDUSTRIAL sensors	RS-485 industrial sensors
4 RELAY output	Relay output
8 VIRTUAL output	Virtual output
5 SNMP trap	SNMP trap
5 E-mail alert	E-mail notification
MQTT protocol	MQTT protocol

Poseidon2 4002 can connect up to <u>42 sensors</u> (16 via 1-Wire UNI / 1-Wire + 26 via RS-485), <u>12 detectors</u> via digital dry contact inputs (DI), 8 virtual digital outputs and 4 relay outputs (NO/NC). Thanks to its strong security combined with wide selection and high number of I/O Poseidon2 4002 is a secure solution for remote environment monitoring and control.

A built-in <u>web server</u> is used for configuring. The device can be monitored remotely over the internet using the free <u>SensDesk portal</u> in combination with the <u>SensDesk Mobile application</u> for iOS and Android. It works with <u>HWg-PDMS</u> and <u>HWg-Trigger</u>

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure M2M protocols (HTTPs, IPv6, SNMPv3) With support for over 50 SNMP and SCADA applications, Poseidon2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.

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

All inputs feature **32-bit pulse counters** that **retain their status** even after power failure.

Compatible with a **wide range of third party SW** (SCADA etc.).

A sensor value out of a set safe range as well as a DI state change sends an **alert by e-mail**, SMS, SNMP Trap, or **activates a remote relay** at another Poseidon2 of Damocles2 unit.

With the <u>HWg-PDMS</u> software, S0 **pulses can be converted** to cost per time period **and exported** to MS Excel.

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Bluemix Internet of Things and other cloud services.
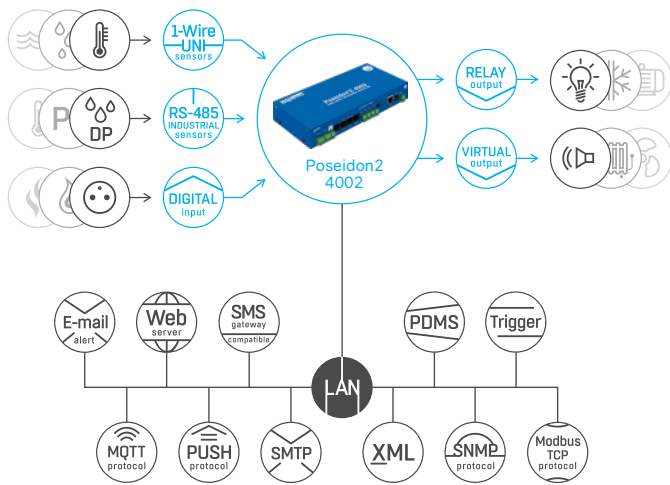
For **Ring or SMS alarm** use the <u>HWg-Trigger software</u> (external GSM modem required), or a <u>HWg-SMS-GW3 gateway</u> in the same LAN.

Examples for programmers on using the product are available in the <u>HWg-SDK</u> (Borland C++, MS Visual, VB, C#, PHP, JAVA and more).

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Damocles2 units on the same LAN.

Typical application examples

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

Ethernet	
LAN	RJ45 (100BASE-Tx) – 10/100 Mbps
Supported protocols	MQTT (IoT), SNMPv1, SNMPv3, HWg-PUSH, Modbus/TCP, HTTPs, IPv6, XML, netGSM

Inputs	
Sensors	16× 1-Wire UNI/1-Wire
Industrial sensors	26× RS-485
Detectors	12× digital input with S0 pulse counters

Outputs	
Digital Outputs (DO)	4× Relay Output 50V / 1A
Virtual Digital Outputs (VDO)	8× (can be mapped to another Poseidon2 or Damocles2

Dimensions / mass	
Dimensions	213×35 ×100mm
Mass	360 g
Housing	Metal

Logger	
Internal memory	250,000 records
Recorded values	DI, DO
Power	9–30V DC; (PoE optional)

User Interface	
Built-in Web server	Device configuration and data readings
SensDesk Portal / SensDesk Mobile application	Cloud portal for data readings and alerting
HWg-Trigger	Alert redirection to SMS, pop-up messages, PC shutdown
HWg-PDMS	Logging of values, graphs, export to MS Excel
More software	Third-party software, HWg-SDK

Poseidon2 model comparison

Selected features		4002	3468	3268	3266
Inputs	1-Wire UNI	16	8	8	8
	DI	12	4	4	4
	RS-485	26	–	–	–
Outputs	Relay 250 V / 10A	–	2	–	–
	Relay 50 V / 1A	4	–	2	–
	VDO	8	8	8	–
Power	9–30V	✔	✔	✔	✔
	-48V	–	✔	–	–
	PoE	opt.	✔	opt.	opt.
Connected	LAN	✔	✔	✔	✔
	RS-232	✔	–	–	–

Configuration interface

Versions and related products

Poseidon2 4002
stand-alone device.

Poseidon2 4002 TSet
includes two temperature sensors, door contact and a power adaptor.

Poseidon2 3468 TSet
includes a temperature sensor and a power adaptor.

Poseidon2 3268 TSet
includes a temperature sensor, door contact and and a power adaptor.

Poseidon2 3266 THSet
includes a temperature and humidity sensor, door contact and and a power adaptor.

HWg-SMS-GW3 Set
SMS gateway for ring and SMS alerting for LAN. Includes antenna and a power adaptor.