



Poseidon2 4002

Secure solution for remote environment monitoring and control of outputs



16 1-Wire UNI sensors

12 Digital Input

26 RS-485 industrial sensors

4 Relay output

8 Virtual output

5 SNMP trap

5 E-mail notification

MQTT protocol

Poseidon2 4002 can connect up to **42 sensors** (16 via 1-Wire UNI / 1-Wire + 26 via RS-485), **12 detectors** 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 **web server** is used for configuring. The device can be **monitored remotely over the internet** using the free **SensDesk portal** in combination with the **SensDesk Mobile application** for iOS and Android. It works with **HWg-PDMS** and **HWg-Trigger**.

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 or Damocles2 unit.

With the **HWg-PDMS software**, **SO 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.

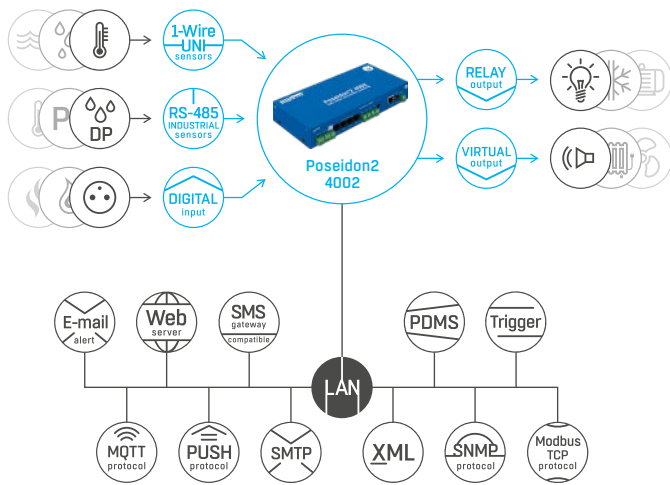
For Ring or SMS alarm use the **HWg-Trigger software** (external GSM modem required), or a **HWg-SMS-GW3 gateway** in the same LAN.

Examples for programmers on using the product are available in the **HWg-SDK** (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 SO pulse counters

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

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

Logger	
Internal memory	250,000 records
Recorded values	DI, DO
Power	9–30 V 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 / 10 A	-	2	-	-
	Relay 50 V / 1 A	4	-	2	-
	VDO	8	8	8	-
Power	9-30 V	✓	✓	✓	✓
	-48 V	-	✓	-	-
	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 a power adaptor.

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

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