



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 **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, **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.

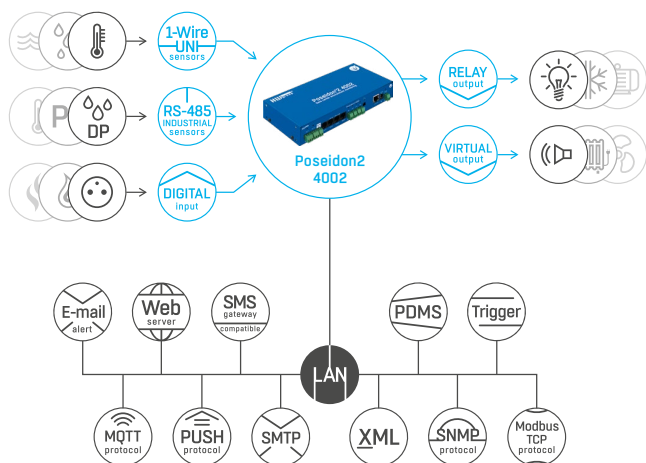
For Ring or SMS alarm use the HWg-Trigger software (external GSM modem required), or a HWg-SMS-GW3 gateway in the same LAN.

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 / 1 A
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

<p>Poseidon2 4002 stand-alone device.</p>	<p>Poseidon2 4002 TSet includes two temperature sensors, door contact and a power adaptor.</p>	<p>Poseidon2 3468 TSet includes a temperature sensor and a power adaptor.</p>	<p>Poseidon2 3268 TSet includes a temperature sensor, door contact and a power adaptor.</p>	<p>Poseidon2 3266 THSet includes a temperature and humidity sensor, door contact and a power adaptor.</p>	<p>HWg-SMS-GW3 Set SMS gateway for ring and SMS alerting for LAN. Includes antenna and a power adaptor.</p>
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