Poseidon SNMP thermometer

Measurement of temperature, humidity and other sensors via Ethernet network.

*The Poseidon family devices monitor temperature, humidity, air-flow, door contacts and other values using up to 42 sensors, which can be up to 1000 meters from the Poseidon unit. The measured values can be accessed over **WWW** for a supervisor or over **M2M** protocols (SNMP, XML, Modbus/TCP etc.) for monitoring software.*

Poseidon will increase protection of your devices and information by monitoring the environment where your technology is placed. You can measure for example:

- Inner and outer **temperature** of the device
- Room or rack **humidity**
- Flooding or **water** presence
- Ventilation and air-flow
- **Power supply failures**
- Door opening, movement etc.

Applications

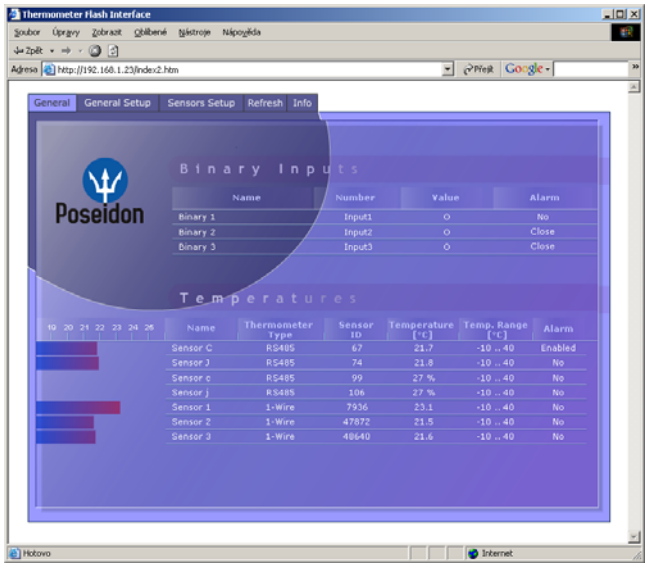
- IT – monitoring of server rooms, 19“ Racks, UPS.
- Monitoring of air-condition devices, especially of condensed water.
- Environment monitoring in backup power source rooms and power packages.
- Monitoring of environment in intelligent buildings.
- Monitoring of storage premises.
- Information booths, terminals, transmitters - standalone units in the outside environment.

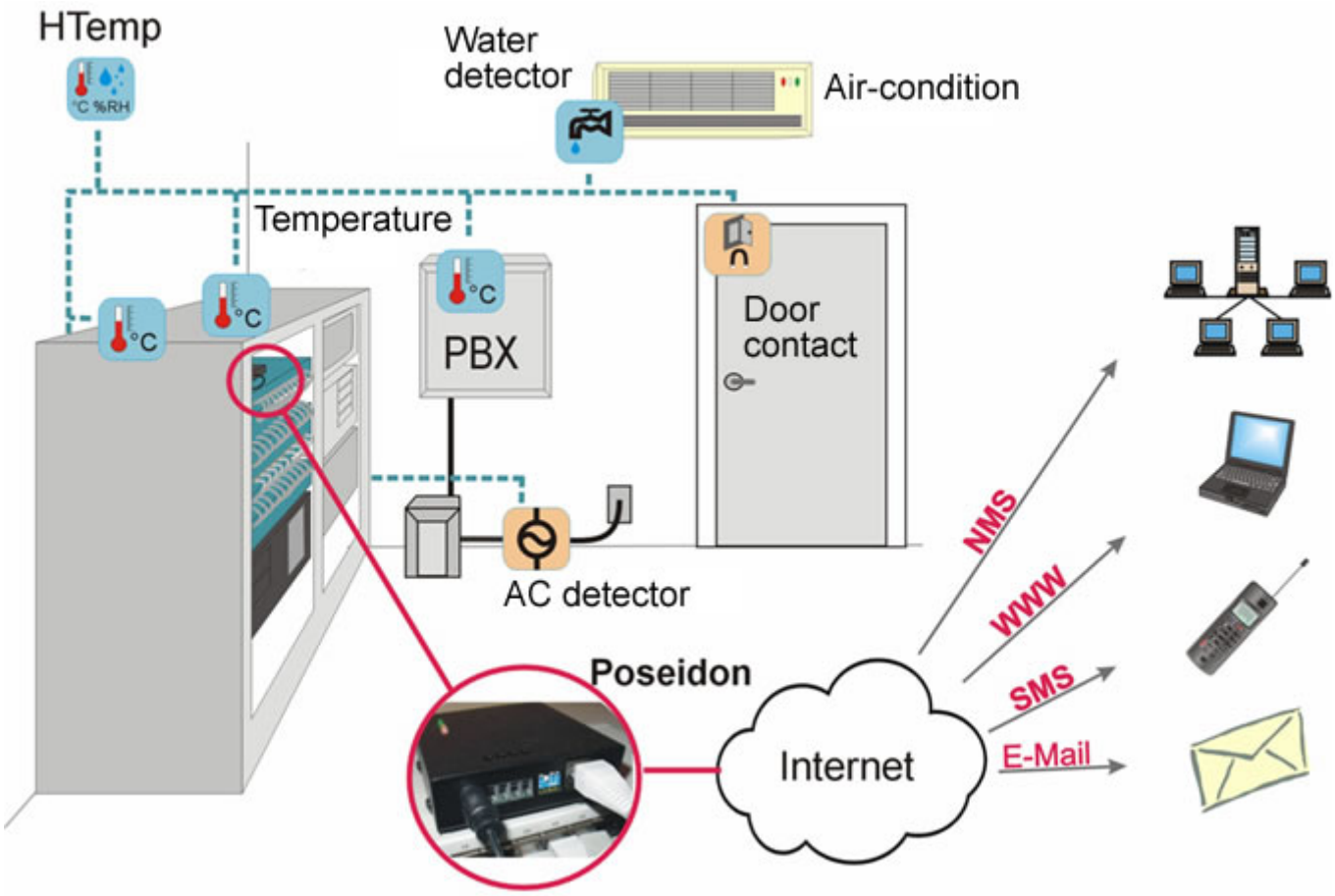
Working with the measured values

Alarm notifications are sent via **email** or as a **SNMP trap**. You can also send the alarm via **SMS** using complementary software.
The measured values are transferred to the NMS (Network Management Systems) over the Ethernet network using the following protocols:

- **XML** (ideal for pocket PC or PDA)
- **SNMP** (telecommunications supervision)
- **Modbus/TCP** (industrial systems)

User or administrator can monitor the state of the device via a WWW interface.





Technical parameters

- **Sensors**
  - **Temperature** - (up to 42 sensors, measured temperature from -55 °C to +640 °C, up to 1.000 meters distance)
  - **Humidity** (up to 25 sensors, up to 1.000 meters distance)
  - **Air-flow** (sensor for detecting ventilation failures)
  - **Digital input / contact** (sensors of smoke, fire, movement, flooding, tilt, door contacts, flooding etc...)
  - **General input** (0..10V, 4..20mA – using external RS-485 converters)
- **Communication protocols:** TCP/IP, UDP, SMNP, SNMP Trap, Modbus/TCP, XML, HTML

Poseidon can be mainly used for supervising remote objects where you need to watch physical parameters of the environment and react to every state change. You can use the Poseidon with many sensors and peripherals because of wide support of different protocols.

The WWW interface lowers your expenses for monitoring and SNMP support will inform you in case of any state change.

For a quick start of working with the Poseidon unit we recommend one of the **starting sets** which contain one Poseidon unit (different models) and door contacts or temperature and humidity sensors.

Try the Poseidon via internet as an **online demo** – you can find detailed information on our website: www.HW-group.com

Sensors overview

You can connect a wide variety of supplied temperature and humidity sensors to the Poseidon unit. You can also use professional sensors with analog outputs and connect them using supplied converters for analog interfaces 0..10V or 4..20mA.

		Variable	Accuracy	Distance	No. of sensors	Interface	Designed for
600 005	**Temp-1-Wire**	1x temp	± 0,5 °C	max 25 m	up to 10	1-Wire	Measuring in-room temperatures
600 051	**Temp-232**	1x temp	± 0,5 °C	max 20 m	1	RS-232	Measuring in-room temperatures
600 105	**Temp-485**	1x temp	± 0,75 °C	max 1000 m	up to 31	RS-485	Measuring in-room temperatures, wall mounting
600 106	**HTemp-485**	1x temp 1x humidity	± 0,75 °C ± 2% RH	max 1000 m	up to 25	RS-485	Measuring in-room temperatures and humidity, wall mounting
600 113	**Temp-485-Pt100 Box**	1x temp	± 0,15 °C	max 1000 m	up to 31	RS-485	Industrial measurements, IP65 wall mounting
600 114	**Temp-485-Pt100 Cable**	1x temp	± 0,15 °C	max 1000 m	up to 31	RS-485	Pt100 sensor on a 2m long cable
600 110	**Temp-485-Pt100 Head**	1x temp	± 0,2 °C	max 1000 m	up to 31	RS-485	External temp. sensor Pt100/Pt1000
600 111	**Temp-485-Pt100 DIN**	1x temp	± 0,2 °C	max 1000 m	up to 31	RS-485	External temp. sensor Pt100/Pt1000
600 112	**Temp-485-2xPt100**	2x temp	± 0,2 °C	max 1000 m	up to 31	RS-485	External temp. sensor Pt100/Pt1000
600 116	**Sens-485-UI**	1x voltage 1x current	± 0,5%	max 1000 m	up to 25	RS-485	1x input 0 .. 10V, 1x input 4 .. 20mA
600 120	**Security door contact**	1x contact	0/1	max 100 m	up to 3	Dry Contact	Door opening detection
600 240	Flood detector	1x On/Off	0/1	max 100 m	up to 3	Dry Contact	Flooding detection
600 235	Smoke detector	1x On/Off	0/1	max 100 m	up to 3	Dry Contact	Smoke detection
600 236	Motion PIR detector	1x On/Off	0/1	max 100 m	up to 3	Dry Contact	Movement detection
600 237	AC power detector	1x On/Off	0/1	max 100 m	up to 3	Dry Contact	Voltage detection - 110/220 V
600 238	Air Flow detector	1x On/Off	0/1	max 100 m	up to 3	Dry Contact	Air-flow detection

Installation accessories

The **S-Hub** and **T-Box** connecting units are recommended when installing more than two sensors. These units also allow connecting sensors using existing structured cabling. A great advantage is the possibility to choose the Y-connection or the ring connection. The connection is created using structured cabling and standard RJ45 and RJ12 connectors.

Supported software

The Poseidon unit is supplied with the **PN Eye** software, which allows regular reading and logging of the data, alarm reporting via email, or SMS using the GSM modem.

Tested with: Tecnomatix **FactoryLink** v7.5, **SNMPc** v5.1.6c, **LoriotPro** v3, **MRTG**, IBM Tivoli, **HP Open View**, CA Unicenter TNG, NetDecision (NetMechanica) and more...

Poseidon models

Poseidon 1140

The oldest Poseidon model, designed for industrial environments. Everything is led out on two Cannon 9 connectors, supports Temp-232 sensors and Modbus/TCP interface.

Poseidon 1250

The 1140's successor, the Cannon connector for 1-Wire and RS-485 bus is replaced by RJ12 and RJ45. Allows sending emails, does not support Modbus/TCP.

Poseidon 3265

Low cost Poseidon model, designed only for one 1-Wire sensor. Alarms reporting supported via SMS (GSM modem connected to the device), email and SNMP Trap.

Poseidon 2250

Expands the 1250 model with independent measured values logging. Includes its own real time clock, it does not allow sending emails and it does not support Modbus/TCP.

	Model 1140	Model 1250	Model 3265	Model 2250
Online sensor values	Yes	Yes	Yes	Yes
Logger capacity	-	-	-	**40 000 records**
Max Sensors quantity	1.. 43	1 .. 42	**1** (up to 5)	1 .. 42
HW version	3, 4	5	6	5
RS-232 interface	Port2, DB9M	Port2, DB9M	Port2, DB9M	Port2, DB9M
RS-485 interface	Port1, **DB9F**	Port1, **RJ45**	**No**	Port1, **RJ45**
1-Wire interface	Port1, **DB9F**	Port 3, **RJ11**	Port 2, **RJ11**	Port 3, **RJ11**
Dry Contact Inputs	3x, Terminal block	3x, Terminal block	**none**	3x, Terminal block
Outputs for Relay	No	Yes, 2x (DB9M)	No	Yes, 2x (DB9M)
WEB interface	Yes	Yes	Yes	Yes
XML data interface	Yes	Yes	Yes	Yes
Modbus/TCP interface	Yes	No	Yes	No
SNMP data interface	Yes	Yes	Yes	Yes
SNMP Trap for Alarms	Yes	Yes, 2 destination	Yes, 2 destination	Yes, 2 destination
Emails for Alarms	No	Yes, 2 destination	Yes, 2 destination	No
GSM SMS for Alarms	No	No	**Yes**	No
HW Real Time Clock	No	No	No	**Yes**
Configuration SW	PN Eye 1140	PN Eye	PN Eye	PN Eye
Firmware update	WEB, RS-232	WEB, RS-232	WEB	WEB, RS-232
Firmware versions	1.1.x - 1.8.x	1.9.x	3.x.x	2.x.x