

Poseidon model 1250

Measurement of temperature and other sensors over the network.

The Poseidon model 1250 send alert when sensor value gets out of defined range. Alert can be Email, SNMP Trap or SMS. Embedded web server for setup and also network M2M protocols (SNMP, XML, Modbus/TCP).

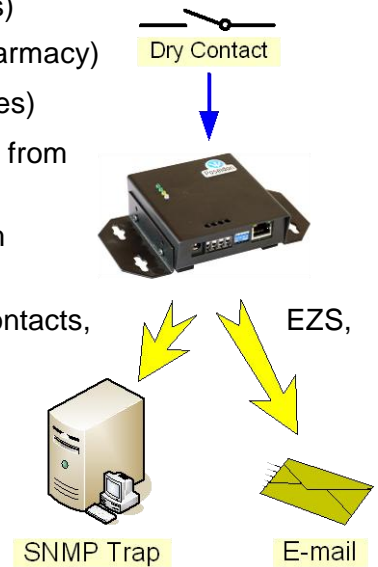
Up to 40 sensors can be connected by two bus systems and dry contact inputs.



- **3x inputs** to connect contacts
- **RJ12 1-Wire bus** up to 10 sensors (temperature or humidity) up to 10 meters
- **RJ45 RS-485 bus** up to 31 sensors (temperature, humidity, voltage 0 to 5V, current 0 to 20mA, impulses, power, current consumption and air-flow) over distance of up to 1000 meters.

Application examples

- Server rooms / Datacenters (humidity, door, motion detector, hazardous gas)
- Storage services, cold storages, freezers and refrigerator (food industry, pharmacy)
- Monitoring of network devices (microwave connections, AP, distribution boxes)
- Supervising of air-conditioning – temperature and condensed water leakage from air-conditioning units.
- Monitoring of environment in UPS, back-up power supply and Diesel-system rooms and Diesel-engines over SNMP
- Extensive buildings – heating optimization (temperature measuring), stop contacts, EPS)
- Providing external data to SCADA systems
- Monitoring ATM, terminals, transmitters



Value sensors

- **Temperature** (up to 42 sensors, temperature range -55 °C to +640 °C, Sensor-unit distance up to 1 000 meters)
- **Humidity** (up to 25 sensors, maximum sensor distance: 1 000 meters)
- **General sensors:**
 - Voltage (0 to 10V and 110/230V)
 - Air flow
 - Declination / Inclination
 - Current (0 to 20mA and 230V)
 - Motion and location
 - Closing/opening door
 - Flood (surface detector)
 - Smoke and gas
 - General contact

Features

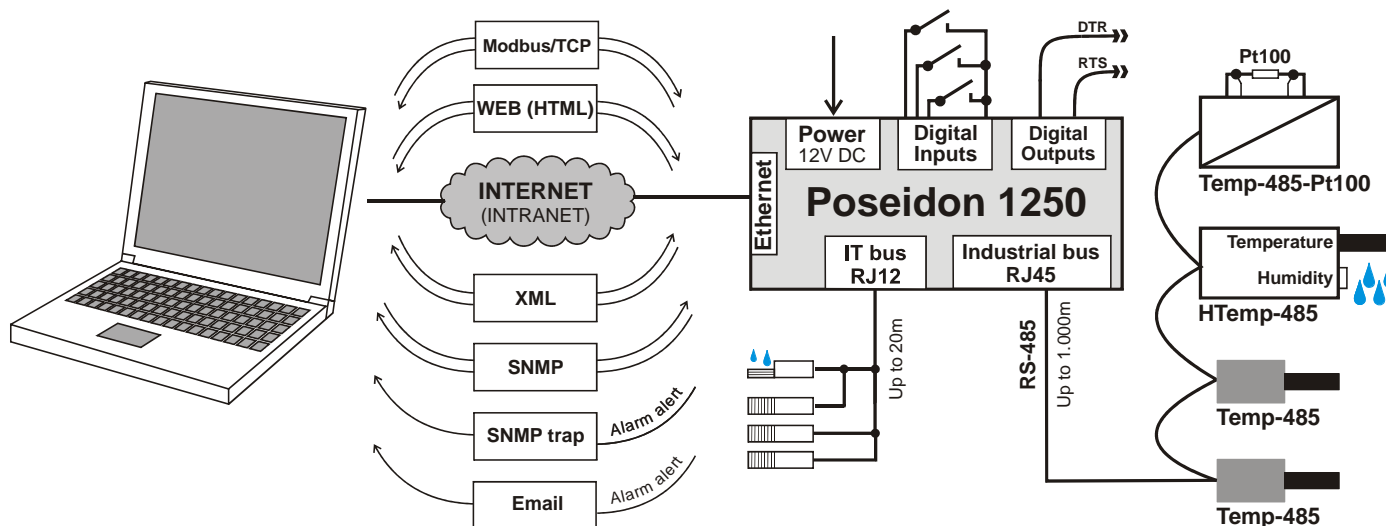
- **Graphical WWW interface** for setup.
- No special SW necessary
- One Poseidon 1250 monitors up to **42 external sensors**.
- *Alarm state* reporting - **Email, SNMP Trap, SMS** (local GSM morem G10 required or SW application PD Trigger).
- Large sensor portfolio, from economical to professional industrial sensors. Sensor distance up to 1000 meters.
- Direct control two external relays.
- Opened communication protocols (**SNMP, XML, Modbus/TCP**)
- Supported programs and utilities (PD Trigger, HWg-PDMS, CapTemp and others)
- **SDK** (Software Development Kit) SW development libraries + examples (VB, Delphi, Java, C, C# etc.)
- **Third party SNM software applications:**
LoriotPro, HP, OpenView, Nagios, IBM, Tivoli, SNMPc, MRTG, NMS dashboard

Poseidon model 1250

• Dry Contact Inputs:	3
• Outputs (via RS-232):	2
• Sensors	
▪ 1W bus (local area):	10
▪ RS485 bus (up to 1000m):	31
• SNMP:	Yes
• Alarm alerts by e-mail:	Yes
• Internal flash logger:	No
• GSM modem (SMS alerts):	Yes

Summary

- **Network communication protocols**
 - Web (HTML)
 - XML
 - Modbus/TCP
 - SNMP
 - TCP/IP, UDP/IP
- **Alarm alert**
 - **E-mail**
 - **SNMP Trap**
 - **SMS**
- **Configuration**
 - Serial port RS-232 (terminal)
 - WEB graphical interface (Flash Setup)
 - TELNET (TCP Setup)
 - UDP broadcast (UDP Setup)
- **Status indicators**
 - LED: Alarm, Sensor, Power, Link
- **Outputs**
 - 2 outputs for relay control
(Can't be used together with GSM modem)



Evaluation kits

Poseidon 1250 Tset

- Poseidon unit, model 1250 [600 006]
- Temperature sensor – Temp- 1Wire [600 005]
- Door contact [600 119]
- Power adaptor [600 080]
- Manual – “Starting Guide” – Poseidon 1250 Tset”
- CD with documentation, FirmWare versions, test utilities and others SW.



Poseidon 1250 THset

- Poseidon unit, model 1250 [600 006]
- HTemp-485 temperature/humidity sensor [600 106]
 - Sensor RJ45 MIDDLE cable [600 233]
- Door contact [600 119]
- Power adaptor [600 080]
- Manual – “Starting Guide” – Poseidon 1250 Tset”
- CD with documentation, FirmWare versions, test utilities and others SW.



OID	Product name	Product description
600 006	Poseidon model 1250	Poseidon unit 1250
600 042	Poseidon 1250 Tset	Start set Poseidon 1250, power adaptor, CD, temperature sensor
600 043	Poseidon 1250 THset	Start set model 1250, power adaptor, temperature and humidity sensors

Other accessories

600 080	Wall power adaptor 12V	Power adaptor 0.5A for EU plug (UK = 600 082, US = 600 081)
600 251	Back-Up power supply 12V	Power supply 12V / 0.4 A backed up by accumulator
600 023	2x Wall Bracket “A” size	Lateral “L” plates, for wall mounting.



Poseidon T-Box
600 040



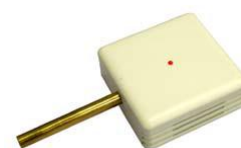
Temp-1Wire 1m
600 242



Poseidon S-Hub
600 041



Temp-485-Pt100 „Box“
600 113



Temp-485
600 105

Sensors for Poseidon 1250

IT bus (RJ12)

Up to 10 sensors connected en bloc, maximum total bus length is 10m, but type 1-Wire

600 005	Temp-1Wire 3m	Temperature sensor, accuracy $\pm 0.5^{\circ}\text{C}$, cable 3m, (1m=600 242)
600 056	Temp-1Wire 10m	Temperature sensor, accuracy $\pm 0.5^{\circ}\text{C}$, connecting cable 3m
600 279	Humid-1Wire 3m	Humidity sensor, connecting cable 3m (1m = 600 278)
600 040	Poseidon T-Box	Hub for connection of 5 RJ12 sensors to the unit
600 280	Poseidon T-Box2	Hub for connection of 2 RJ12 sensors to the unit cable 3m

Industrial bus (RJ45)

Up to 31 sensors connected in total, maximum total bus length is 1000m, but type RS-485

600 041	Poseidon S-Hub	Hub for connection up to 8 sensors over RS-485 bus (8x RJ45)
600 233	Sensor RJ45 MIDDLE cable	Cable of 0.5m (RJ45 plug / 4 wires for the terminal block)
600 044	Poseidon B-Cable	Converter for the RS-485 bus RJ45 socket / 4 terminal pins (A,B,+,-)
600 273	Spider-485	Connects up to 4x 1-Wire (RJ12) sensor over RS 485 bus
600 105	Temp-485	Temperature sensor – indoor vertical wall mounting
600 106	HTemp-485	Temperature and humidity sensor – indoor vertical wall mounting
600 116	Sens-485-UI	Voltage (0..15V) and current sensor (0..25mA), DIN rail version
600 113	Temp-485-Pt100 „Box“	Platinum temperature sensor, accuracy: $\pm 0.15^{\circ}\text{C}$, IP65 for outdoor use
600 114	Temp-485-Pt100 „Cable“	Pt100 – platinum temperature sensor, cable 2m, accuracy: $\pm 0.2^{\circ}\text{C}$
600 112	Temp-485-2xPt100 „DIN“	Converter for 2 external temp. sensors Pt100, mounting on DIN rail

Digital outputs (DB9)

Two digital outputs RTS and DTR, controlled over serial interface RS-232.

600 244	P1250 RC (Relay Cable)	Converter for two relays (12V coil) for the Poseidon 1250 over RS-232
600 237	PowerEgg	Control of AC output (110 up to 230V)
600 085	DIN Rail Relay 2s	Switch relay on DIN rail – 10A / LED indicator

Digital inputs (terminal block)

Three inputs for the connection of 'Dry Contact' sensors

600 120	3 Door Contacts	Detector of opening/closing door (packet of 3 pieces)
600 237	PowerEgg	Detection of AC voltage (110/230V), controllable AC output (110/230V)
600 240	Flood detector	Flood detector
600 235	Smoke detector	Ionic smoke detector
600 239	Gas Leak Detector 12V	Flammable gas detector
600 236	Motion PIR detector	Infrared motion detector
600 304	AirFlow SL5101	Air flow speed digital adjustable detector