

The Poseidon family

Monitor temperature, humidity, dry contact inputs, analog values and other sensors over a network.

Devices in the Poseidon family are intended for monitoring sensors and controlling other devices over a network. Poseidon units support up to 42 sensors located up to 1000m away from the unit. Sensor values can be accessed over **WWW** by an operator, or over **M2M** protocols (SNMP, XML, Modbus/TCP etc.) by monitoring software.

By monitoring the environment where your equipment is located, Poseidon units provide added protection for your devices and data. For example, one can monitor and react to:

- Indoor/outdoor **temperature**, max range: -80°C...+650°C (-112°F... 1200°F)
- Relative **humidity**, range: 0..100% RH
- **Flooding** or water leaks
- **Airflow** of fans
- **Power** supply failures
- Analog values (V / mA)
- **Door contacts**, smoke detectors, motion detectors, etc.



Poseidon 1250



Poseidon 3266



Poseidon 3265

The measured values are available for retrieval by network monitoring systems, as well as for direct viewing by the operator in a web browser.

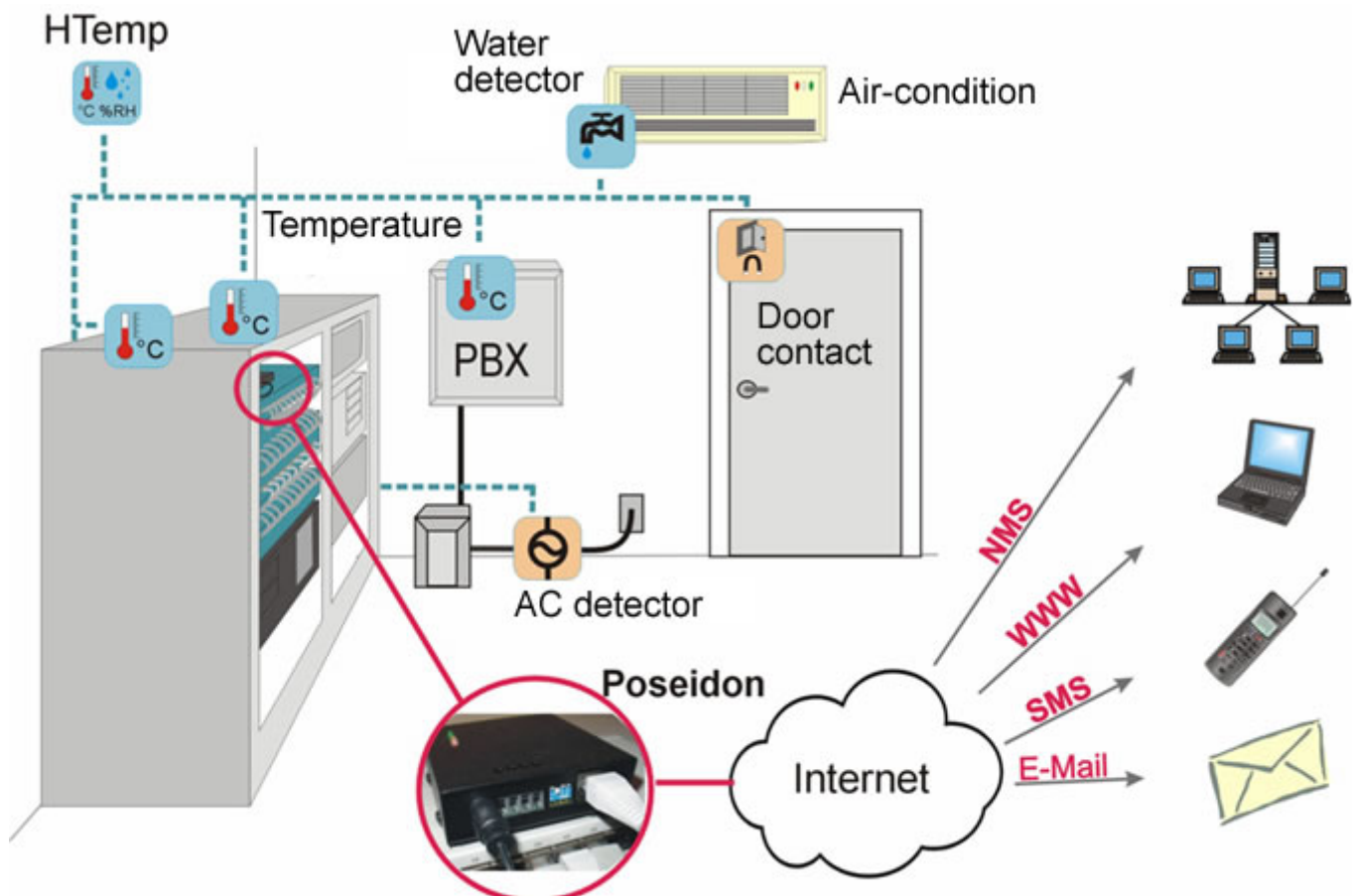
Poseidon model	3262	3265	3266	3268	1250	2251
WEB interface	✓	✓	✓	✓	✓	✓
Dry Contact Inputs	-	-	4	4	3	3
Outputs	-	-	-	2	2 (RS-232)	2 (RS-232)
IT bus (RJ12)	6 sensors	5 sensors	3 sensors	4 sensors	10 sensors	10 sensors
Industrial bus (RS485)	-	-	-	-	31 sensors	31 sensors
Logger capacity	-	-	-	-	-	40,000 records
HTML, XML	✓	✓	✓	✓	✓	✓
SMTP E-mail	✓	✓	✓	✓	✓	✓
SNMP (R/W), Trap	✓	✓	✓	✓	✓	-
Modbus/TCP	-	✓	✓	✓	✓	✓
Alarm SMS (external GSM modem req'd)	-	✓	-	-	-	✓

Applications

- Monitoring of IT systems in server rooms, 19" racks
- Environment monitoring in intelligent buildings
- Monitoring of storage rooms and areas
- Monitoring of cable ducts and conduits
- Monitoring the storages of pharmaceuticals, food or chemicals
- Bakeries, technological processes, etc.
- HVAC monitoring and control
- Monitoring of back-up supplies
- Monitoring and metering of electricity consumption
- Information kiosks, terminals, transmitters – standalone outdoor units and equipment
- Environment monitoring in buildings, shopping malls, rental premises
- Telecommunication and transmission devices (transmitters, telephone exchanges)



Example – Monitoring an IT server room



Overview of sensors

Poseidon can be used to monitor and control remote systems where it is necessary to watch the physical parameters of the environment and react to any changes. Poseidon units support a wide range of sensors and other devices.

- **Temperature** – up to 42 sensors, measured range from -80°C to +650°C (-112 °F to 1200°F)
 - External Pt100 / Pt1000 sensors can be connected for special-purpose applications
- **Humidity** – up to 25 sensors, located up to 1000m away from the unit
- **Digital (dry contact) inputs** (smoke / fire / motion / flood detectors, door contacts, ...)
 - **AirFlow** – sensor to detect ventilation failures
 - **Water flood detector** – protects the system against leaking water in case of A/C failure
- **External analog quantities** (0..10V, 4..20mA – using external RS-485 converters)
- **Digital outputs** to switch other devices on/off (alarms, fans, UPS units)
 - **PowerEgg** – 110/230VAC power supply voltage detector and switch



Supported software

- **Setup & monitoring software**
 - **UDP setup** – freeware utility to assign IP addresses
 - **PHP logger** – centralized, server-based data logging application
 - **PD Trigger** – shut down a server (PC) upon a power failure or overheating
 - **M1 (MonitorOne)** – professional IT infrastructure monitoring solution (logging, Web interface, multilevel maps, e-mail and SMS alarm alerts)
- **Development software** provides support for third-party applications
 - **SDK** – Software Development Kit provides sample code in VB, .NET, Borland C, Microsoft C, Delphi
 - **JAVA demo** – Java example of acquiring and analyzing data using XML and SNMP
 - **VB Excel example** – example of converting the readings to an Excel sheet using XML
 - **PosDamInstWiz** – Poseidon & Damocles Installation Wizard for third-party applications
- **Third-party software**
 - **Security applications:** PowerCon, GisWare, Alvis
 - **Food & Pharmacy applications:** CapTemp
 - **IT market:** M1 Monitor one, IBM Tivoli, HP Open View, The Dude, PRTG & IPCheck, WhatsUp, GFi, Intellipool, SNMPc, LorientPro, MRTG, NetDecision
 - **Industrial applications:** FactoryLink v7.5, Wonderware InTouch

Poseidon family

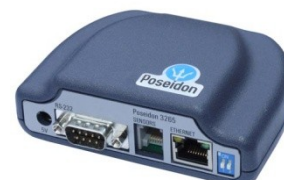
The Poseidon product line consists of several models targeted at various applications and markets. All models share the following features:

- Unified, easy-to-use graphical configuration interface
- Mutually compatible network communication protocols
- Wide range of inputs, outputs and sensors
- Solutions for several budget levels



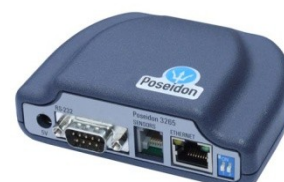
Poseidon 3262

Economy model for simple IT & ICT applications. Monitors up to six external temperature and humidity sensors. Readings are accessible over XML, SNMP. Alarm alerts via e-mail or SNMP traps.



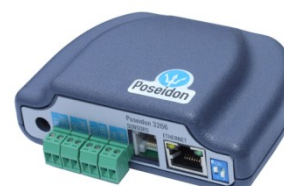
Poseidon 3265

Popular model for IT / ICT applications with GSM modem support. Alarm alerts can be send via text messages (SMS), without a need for a PC or special software. Supports up to 5 temperature and humidity sensors. Current readings are available over XML, SNMP. Alarm alerts via e-mail, SNMP traps, SMS. To send SMS alerts, a GSM modem must be connected to the unit via RS-232.



Poseidon 3266

Economy model for IT applications. Supports 3 external sensors, as well as 4 dry contact inputs to connect digital sensors of any kind – door contacts, power detectors, smoke detectors, and so on. Sensor readings available over XML and SNMP. Alarm alerts via Email or SNMP traps.



Poseidon 3268

Monitoring and control for IT / ICT applications. Supports 4 external sensors, 4 dry contact inputs and two outputs (double-throw relay contacts). The outputs can control multiple devices, e.g. a ventilation system, an alarm system, power to a server, etc. Device is controlled over XML and SNMP (R/W). Alarm alerts via e-mail or SNMP traps.



Poseidon 1250

Industrial model. Supports up to 42 sensors installed up to 1000m away from the unit. Two buses to connect the sensors: "IT bus" (up to 10 sensors), "Industrial bus" (RS-485) – industry-standard interface to connect, for example, high-precision Pt100 temperature sensors or analog input modules. Supports the popular Modbus/TCP industrial protocol. Device is controlled over XML, SNMP (R/W). Alarm alerts via e-mail or SNMP traps.



Poseidon 2251

Industrial model with GSM modem support and a built-in independent logger. Logged values are available over http in a .csv file. Device is controlled over XML. Alarm alerts via e-mail or SMS (sent through an external GSM modem connected to the serial port of the device; no other software necessary). Logged data can be directly downloaded to MS Excel or CapTemp.

