

CASE STUDY

AIViS Monitoring Temperature and Humidity in Racks

Objectives of the project

The aim of the AIViS application was a complex monitoring of server rooms including access control, security and fire alarm as usual but moreover to give information and alarms on temperature and humidity conditions in the server racks. The "Poseidon" IP unites (www.hw-group.com) are used to enable continual measurement of these parameters.

Devices installed

Poseidon 3268 units

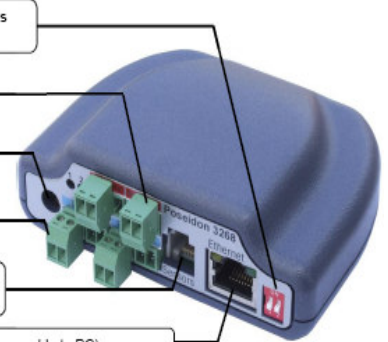
- IP connectivity
- Till 4 temperature or humidity sensors
- 2 output relays to turn on/off air-condition
- 2 dry contact inputs to monitor rack doors opened/closed

Application Software

AIViS graphical desktop client
Poseidon TCP/IP driver - DDE server

1) Connecting Poseidon 3268

- 1.1) Check DIP switches settings. For installation keep them as shown on the picture on the right (DIP1=Off, DIP2=Off).
- 1.2) Output (relay switch contact) to turn on/off external devices (fans, air-condition, heating, siren, etc.)
- 1.3) Connect power adapter to power supply (230 / 110V) and connector to power cord of Poseidon.
- 1.4) Dry contact inputs to connect contacts. Contact sensors (button, relay contact, closed door sensor).
- 1.5) Temperature or humidity probes (IT bus interface) (Temp-1Wire or Humid-1Wire), RJ12 must click.
- 1.6) Connect Poseidon to Ethernet (direct cable to Switch, cross-cable to PC)



Integration parameters

- Fire alarm, Security, Access Control monitoring as basic integration concept
- Poseidon 3268 units incl. 2x temperature sensor, 1x humidity sensor, 1x door contact input, 1x air-condition relay switch
- Display current parameters of temperature / humidity in the racks, manage alarm status overloading the allowable parameters and displaying history on graphs

