adquio | EXPANSIONS

Adquio 8 PT1000

8 temperature inputs for distributed monitoring

Reference: ADQ-SA-8PT1000
Category: ADQUIO · EXPANSIONS

DESCRIPTION

Adquio 8 PT1000 is an expansion module that adds 8 PT1000 temperature probe inputs to Adquio controllers, enabling highly accurate temperature monitoring anywhere in the installation: HVAC, underfloor heating, water or storage.

It connects to the controller's RS485 bus and provides real-time temperature values for control logic. With 15-bit resolution and software adjustment, it delivers accurate readings for HVAC automation or temperature-dependent processes.

BENEFITS

High-accuracy monitoring

8 PT1000 inputs with 15-bit resolution. Readings are available in real time for control logic and monitoring dashboards.

Expand without rewiring

Connects to the controller's existing RS485 bus. Add temperature measurement points without changing the system architecture.

Full scalability

Up to 128 modules per controller RS485 port, covering installations with hundreds of distributed temperature points.

Direct automation integration

Use temperature values directly in control rules: activate HVAC if T > X, raise an alarm if T < Y, or log historical data for audits.

TYPICAL APPLICATIONS

HVAC multi-zone

Switch dozens of independent HVAC circuits on or off by zone, floor or schedule.

Hotels and hospitality

Precise temperature control in rooms, shared areas and technical facilities, with historical records for maintenance.

Office buildings

Zone-level comfort with real-time temperature data for automatic HVAC adjustment and energy reporting.

Technical facilities

Highly precise temperature monitoring in server rooms, warehouses or spaces requiring accurate environmental control.

Underfloor heating

Measure return and surface temperatures to automatically regulate underfloor heating circuits.

Is this product part of your project?
Contact us and we will prepare a complete technical proposal.

WHEN TO CHOOSE ADQUIO 8 PT1000?

Choose Adquio 8 PT1000 when the project needs to monitor temperatures at multiple points using PT1000 probes.

Choose Adquio 8 PT1000 when your project includes any of these scenarios:

→ **Zone-based HVAC control**
The installation has multiple zones with PT1000 probes that need temperature monitoring to activate or regulate HVAC equipment.

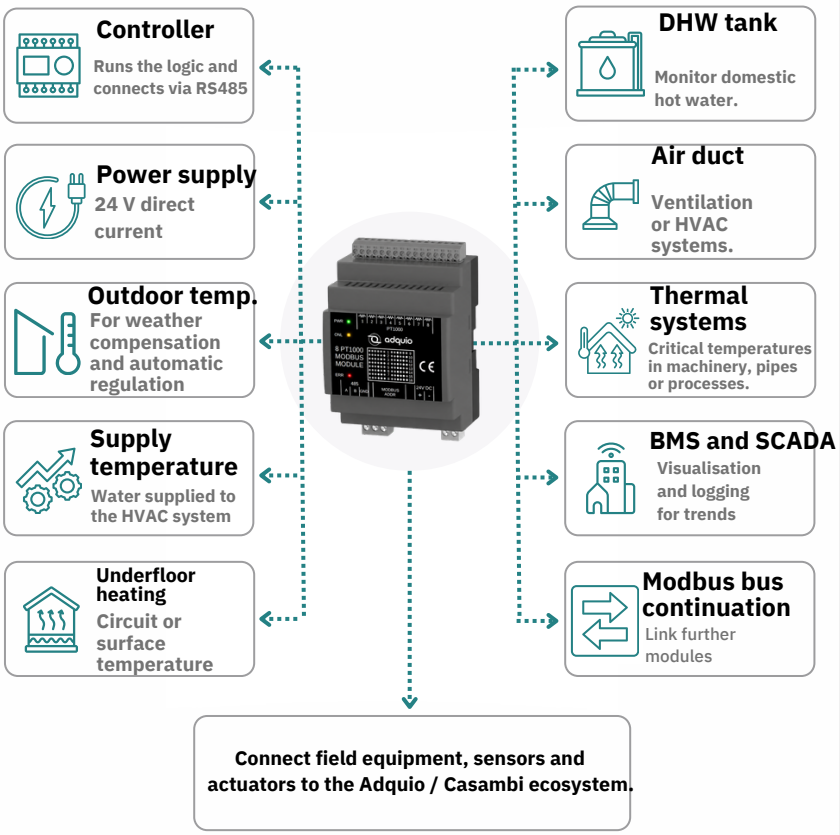
→ **Underfloor heating monitoring**
The project includes underfloor heating circuits that need temperature readings for automatic regulation.

→ **Temperature control**
For industrial or technical processes where fluid, surface or ambient temperatures need precise control.

→ **Additional measurement points**
A controller is already installed and more temperature inputs are needed without replacing the central device.

→ **Preventive maintenance and anomaly detection**
The installation needs to compare supply, return or critical equipment temperatures to detect overheating, reduced performance or faults before they cause downtime.

TYPICAL ARCHITECTURE



TECHNICAL SPECIFICATIONS

Reference	ADQ-SA-8PT1000
Power supply	24V DC nominal - 28V DC maximum
Current	15 mA nominal
Communication	1 × RS485 Modbus RTU slave
Nodes per RS485 port	Up to 128 modules
Installation	35 mm DIN rail • electrical cabinet - IP20
Operating temp.	0°C to +60°C
Certifications	CE & RoHS
Compatible with	Adquio Mini, Adquio Lite, Adquio Micro Server or any controller supporting Modbus RTU
Maximum per controller	Up to 64 with Adquio Mini and Lite, up to 32 with Adquio Micro Server
PT1000 inputs	8
Resolution	15 Bits
Software adjustable	Yes