Low-Cost Sensor for Two Digital Probes and Three Binary Inputs, Ethernet Output and PoE



code: PA8652

The PA8652 is the most versatile model in the PAx6xx series. It allows for the connection of up to two digital temperature probes or combined temperature and humidity probes and also offers three binary inputs for status detection or connection of external detectors.
A unique feature of the device is the ability to power connected detectors with 12 V directly from the terminals even when powered via PoE, which eliminates the need for additional power supplies and significantly simplifies installation.

The device inputs can be configured for voltage signals, dry contacts, or for connecting a two-wire flood sensor.

The PA8652 is ideal for comprehensive environmental monitoring where, in addition to temperature or humidity, it is necessary to monitor flooding, door opening, or other binary states.

Main Benefits:

- Support for external digital temperature and humidity probes + monitoring of 3 binary states
- Allows probe connection up to 40 meters in length
- Ability to power external detectors from the device
- Power supply 15–24 V or PoE (IEEE 802.3af)
- Integrated backup memory
- Modern web interface, IPv4/IPv6 support, Modbus TCP, COMET Cloud, and fully encrypted communication (HTTPS, SNMPv3, TLS)
- Integrated detachable bracket for easy installation

Technical data

TEMPERATURE SENSOR	
Measuring range	Depending on the connected DSxx probe
Accuracy	Depending on the connected DSxx probe
Resolution	0.1 °C
HUMIDITY SENSOR	
Measuring range	Depending on the connected DSxx probe
Accuracy	Depending on the connected DSxx probe
Resolution	0.1% RH
BINÁRNÍ VSTUP	
Voltage input contact parameters	Input voltage for level “L”: < 1.0 V Input voltage for level “H”: > 2.5 V Internal source resistance: < 2 kΩ Input voltage range: 0 to +30 V
Dry contact parameters	Open-circuit voltage at terminals: 3.3 V Current through closed contact: 0.1 mA Maximum contact resistance: < 5 kΩ
GENERAL TECHNICAL DATA	
Operating temperature range	-30 to +60 °C

Measurement channels	2× external temperature probe or 2× combined T+RH probe (cable-mounted), CINCH connector
Maximum probe cable length per channel	40 meters
Supported temperature units	degrees Celsius (°C), degrees Fahrenheit (°F)
Power supply	Power over Ethernet (IEEE 802.3af) or 15–24 V DC
Network interface	Ethernet
IP support	IPv4, IPv6
Communication protocols	HTTP(s), Web server (WWW), HTTP GET (JSON, XML), Modbus TCP, SNMPv1, SNMPv2c, SNMPv3
Alarm protocols	Email (SMTP), Syslog
Measurement interval	2 s
Ingress protection (IP rating)	IP30
Dimensions	116 × 85 × 42 mm (without connected probe)
Weight	180 g
Warranty	3 years