Low-Cost Sensor for One Digital Probe, Ethernet Interface and PoE



code: PA8611

The PA8611 is a universal network sensor designed to connect one digital temperature probe or a combined temperature and humidity probe. The device brings significantly broader power options (5–24 V) along with native PoE support.
This model is ideal for applications with limited access or remote measuring points, where it enables precise measurement of temperature or a combination of temperature and humidity using an external probe located directly at the required measurement point.

The device supports up to four user accounts with different rights, encrypted communication, and modern communication protocols. It features an improved alarm system where two independent limits can be set for each channel.

Thanks to the Ethernet interface, PoE power, and support for industrial protocols, the PA8611 is ideal for integration into building monitoring systems, data centers, and industrial applications.

Main Benefits:

- Support for external digital temperature and humidity probes on a cable
- Allows probe connection up to 30 meters in length
- Power supply 5–24 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
GENERAL TECHNICAL DATA	
Operating temperature range	-30 to +60 °C
Measurement channels	1× external temperature probe or 1× combined T+RH probe (cable-mounted), CINCH connector
Maximum probe cable length per channel	30 meters
Supported temperature units	degrees Celsius (°C), degrees Fahrenheit (°F)
Power supply	Power over Ethernet (IEEE 802.3af) or 5–24 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 roky