Low-Cost Sensor for Up to Four Digital Probes, Ethernet Output and PoE

code: PA8641

The Web Sensor PA8641 is a universal Ethernet sensor designed to connect up to four digital temperature probes or combined temperature and humidity probes.
The device uses an independent bus for each channel, allowing a probe cable length of up to 30 meters for each input separately. This allows individual probes to be placed more flexibly and at greater distances.

The device is suitable for monitoring multiple points in a single location, such as server rooms, technical rooms, or warehouses. Like other models, it offers a modern web interface, top-tier security including the option to upload custom certificates for HTTPS and TLS communication, and PoE support.

The device supports automatic detection and replacement of the same type of probes, simplifying maintenance and calibration.

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	4× external temperature probe or 4× 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