Sensor for One Digital Temperature and Humidity or CO2 Probe, Ethernet Output and PoE

code: TA3611

The TA3611 is a flexible Ethernet sensor designed for connecting one external digital probe.
It supports both temperature and humidity probes as well as the NDIR CO2 probe CO2G-10, allowing the device to be adapted to a specific application without hardware changes. Thanks to the innovated platform, the device offers a modern web interface, advanced security, and broad support for communication protocols.

A large backlit LCD display ensures clear local visualization of measured values, including dew point or absolute humidity calculation, while LED and acoustic signaling alert to alarm states.

The TA3611 is the ideal choice for environmental monitoring in locations where flexibility of the measured variable and easy integration into monitoring systems are required.

Main Benefits:

- Support for T+RH or CO2 digital probes
- Flexible use of one device for different applications
- Backlit LCD display, acoustic and LED alarm signaling
- Power supply 5–24 V or PoE
- 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
DEW POINT	
Measuring range	Depending on the connected DSxx probe
Accuracy	Depending on the connected DSxx probe
Resolution	0.1 °C
CO2 SENSOR	
Measuring range	0 to 10,000 ppm
Accuracy	±(100 ppm + 5% of reading) at 23 °C and 1,013 hPa
Resolution	1 ppm
CO2 probe cable length	1, 2 or 4 meters
GENERAL TECHNICAL DATA	

Operating temperature range	-30 to +60 °C
Measurement channels	1× digital T+RH probe (cable-mounted) or CO_2 probe, ELKA connector
Calculated values	dew point temperature, absolute humidity, specific humidity, mixing ratio, specific enthalpy, humidex, heat index
Supported temperature units	degrees Celsius (°C), degrees Fahrenheit (°F)
Temperature compensation of the humidity sensor	across the entire temperature range
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	1 s
Ingress protection (IP rating)	IP30 (electronics)
Dimensions	116 × 85 × 42 mm (without connected probe)
Weight	220 g
Warranty	3 years