Sensor for Up to Two Digital Temperature and Humidity or CO2 Probes, Ethernet Output and PoE



code: TA3621

The TA3621 is a universal Ethernet sensor allowing the connection of up to two digital probes in any combination.
Two probes for temperature and humidity, a combination of T+RH and CO2, or even two NDIR CO2 probes can be used. This flexibility makes the TA3621 a unique solution for monitoring multiple locations or variables with a single device.

The device is equipped with a backlit LCD display, a complete set of alarm functions, and support for modern platform communication protocols. The device allows monitoring of two zones simultaneously or combining CO2 and humidity measurements in one room. Inter-channel calculations allow for evaluation of temperature differences between probes. Values are displayed on the screen and transmitted over a secure network with PoE support.

The TA3621 is suitable for precise environmental monitoring in buildings and industry.

Main Benefits:

- Support for connecting up to two 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	2× 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