# 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

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| 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 |

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| 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 |