

# INDUSTRIAL TEMPERATURE, HUMIDITY, PRESSURE CO<sub>2</sub> SENSORS

202.03en

## USE

- storage of food, medication
- museums, galleries, depositories
- flats, living space, offices
- technological operations, clean rooms
- industry
- data centres, server rooms

### Measured quantities:

Temperature	(°C)
Humidity	(%RH)
Atmospheric pressure	(hPa)
CO <sub>2</sub>	(ppm)

### Computed quantities:

Dew point temperature	(°C)
Absolute humidity	(g/m <sup>3</sup> )
Specific humidity	(g/kg)
Mixing ratio	(g/kg)
Specific enthalpy	(kJ/Kg)



## GENERAL TECHNICAL PARAMETERS

Temperature measuring range:	-30 ... +80°C (+125 °C)
Humidity measuring range:	0 ... 100 % RH
Atmospheric pressure measuring range:	600 ... 1100 hPa
CO <sub>2</sub> measuring range:	0 ... 2000 ppm
Temperature measurement accuracy:	± 0.4 °C
Humidity measurement accuracy:	± 2.5% RH
Atmospheric pressure measurement accuracy:	± 1.3 hPa
CO <sub>2</sub> measurement accuracy:	± (50 ppm + 2 % of the measured value) at 25 °C and 1013 hPa
Protection:	IP40 – IP65 (depending on the model)
Power:	9–30 VDC, sensors with 0–10V are supplied 15–30 VDC; PoE

## SPECIFICATIONS

Measured quantity/output	4–20mA	0–10V	RS232	RS485	Ethernet
Temperature + 3 bin. output	T0110 T4111 P0120 P0132 Px1x1	T4211	T0310 T4311	T0410 T4411	T0510 T4511 P8510 P8610 P8511 P8541 P8631
Humidity	T1110				
Atmospheric pressure	T2114	T2214	T2314	T2414	T2514
Temperature + humidity	T3110 T3113 T3117 T3111 T3111P	T0210 T0213 T0211 T0211P	T3311 T3313 T3319 T3319P	T3411 T3413 T3417 T3419 T3419P	T3510 T3511 T3511P
Temperature + atmospheric pressure				T5410	
Temperature + humidity + atmospheric pressure			T7310 T7311	T7410 T7411	T7510 T7511
CO <sub>2</sub>	T5140 T5141	T5240 T5241	T5340 T5341	T5440 T5441	T5540 T5541
Temperature + humidity + CO <sub>2</sub>			T6340	T6440	T6540

P8610, P8631 – PoE (Power over Ethernet). Pxxxx – types without display. TxxxxP – model with pressure probe for up to 25 bars. Each device includes a calibration certificate from the manufacture, which is in compliance with the requirements of EN ISO/IEC 17025.

COMBINED SENSORS