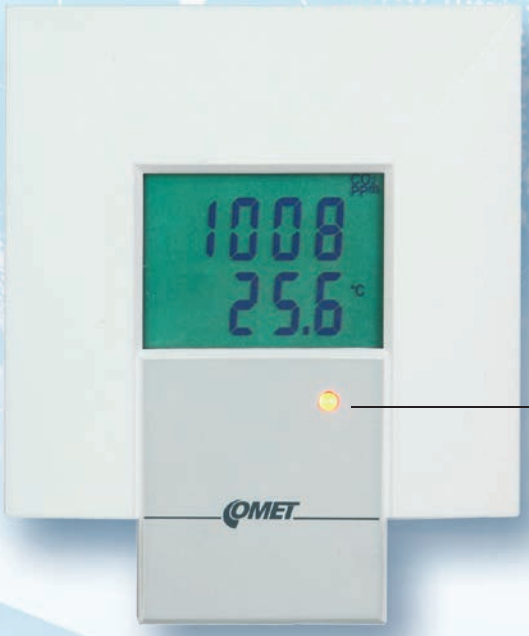
Programmable sensors

Indoor Design



Limits of LED indication may be changed by user.

- 0 to 1000 ppm
- 1000 to 1200 ppm
- 1200 to 2000/10 000 ppm

T8148 - A programmable sensor for temperature and CO_2.

HIGH QUALITY CO_2 SENSOR

- Accurate measurement of:
  - Temperature
  - Humidity
  - Dew point temperature
  - Atmospheric Pressure
  - CO_2
- Various type of outputs:
  - 4-20 mA
  - 0-10 V
  - RS485
- Programmable sensors allow you to:
  - Set the desired range of the analog output
  - Assign the measured value to the output
  - Select and assign the computed value
  - Make user adjustments to the sensor
  - Turn off the display

product catalog for analogue sensors

MEASURED VALUES		Temperature	Temperature + relative humidity	Temperature + relative humidity + atm. pressure	Temperature + CO_2	Atm. pressure
SENSOR MODEL	output 4 - 20 mA	T0118	T3118	-	T8148	T2118
	output 0 - 10 V	T0218	T3218		T8248	T2218
	RS485	T0418	T3418	T7418	T8448	-
temperature	range	-10 to +50 °C	-10 to +50 °C	-10 to +50 °C	-10 to +50 °C	-
	accuracy	±0,5 °C	±0,5 °C	±0,5 °C	±0,5 °C	-
relative humidity	range	-	5 to 95 % RH	5 to 95 % RH	-	-
	accuracy in range 5-60 % at 23 °C	-	±2,5 % RH	±2,5 % RH	-	-
	accuracy in range 60-95 % at 23°C	-	±3 % RH	±3 % RH	-	-
atmospheric pressure	range	-	-	600 to 1100 hPa	-	600 to 1100 hPa
	accuracy	-	-	±1,3 hPa	-	±1,3 hPa
CO_2	range	-	-	-	0 to 2000 ppm*	-
	accuracy is defined at 25 °C	-	-	-	± (50 ppm+2% of measured value)	-
computed values		NO	YES	YES	NO	NO

* Optional measuring range 0-10,000 ppm at extra cost

Computed values

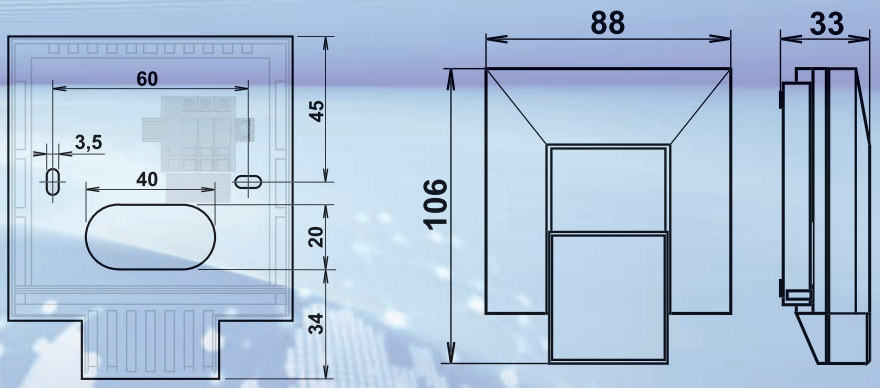
Dew point temperature
Accuracy: ±1,5°C at ambient temperature T<25°C and relative humidity RH

Absolute humidity
Accuracy: ±1,5g/m3 at ambient temperature T < 25°C
for more details see manual.
Range: 0 to 400 g/m3

Specific humidity
Accuracy: ±2g/kg at ambient temperature T < 35°C
Range: 0 to 550 g/kg

Mixing ratio
Accuracy: ±2g/kg at ambient temperature T < 35°C
Range: 0 to 995 g/kg

Specific enthalpy
Accuracy: ± 3kJ/kg at ambient temperature T < 25°C
Range: 0 to 995 kJ/kg



Designed for easy installation into a standard flush-
-mounted wiring box with a minimum depth of 40 mm.