



QMS

MultiSensor

Product features

Measurement of CO₂, air temperature, relative humidity and VOC (optional)

For installation in air ducts, with 80 mm probe

Active: U_v: AC/DC 24 V

Optional with Modbus or BACnet interface

Optional with LCD display (NFC)

Types

Type	T°	rH	CO ₂	VOC	MODBUS	BACnet	LCD
QMS.080.A	•	•	•	-	•	-	-
QMS.080.A.LCD	•	•	•	-	•	-	•
QMS.080.B	•	•	•	-	-	•	-

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Type	T°	rH	CO2	VOC	MODBUS	BACnet	LCD
QMS.080.B.LCD	•	•	•	-	-	•	•
QMS.080.U	•	•	•	-	-	-	-
QMS.080.U.LCD	•	•	•	-	-	-	•
QMSV.080.A	•	•	•	•	•	-	-
QMSV.080.A.LCD	•	•	•	•	•	-	•
QMSV.080.B	•	•	•	•	-	•	-
QMSV.080.B.LCD	•	•	•	•	-	•	•
QMSV.080.U	•	•	•	•	-	-	-
QMSV.080.U.LCD	•	•	•	•	-	-	•

Specifications

CO₂ sensor

Non-dispersive infrared technology (NDIR)

Temperature / humidity sensor

Digital

Measuring ranges

CO₂: 0 - 5.000 ppm

Temperature: -10 - 50 °C

Relative humidity: 0 - 95 % RH (non-condensing)

Accuracy

CO₂ repeatability: ±35 ppm, ±3% of measured value

Annual zero-point drift: < ±10 ppm

Temperature tolerance: ±1 K

Humidity tolerance: ±2% RH (10 - 90 % RH, 25 °C)

Long-term stability

Humidity: < ±0.25% per year

Temperature: < ±0.03 K per year

Analog signals

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Analog outputs: 1 - 10 V \pm 150 mV. DC < 5 mA
Optional analog inputs: 1 - 10 V \pm 150 mV
Optional relay module: DC 30 V, 1 A, changeover contact

VOC

Optional, \pm 15 index points

Warm-up time

Approx. 30 seconds
VOC sensor: approx. 30 minutes

Power supply

19 - 26 V DC
24 V AC \pm 10%

Current consumption

38 mA (24 V DC)
61 mA (24 V AC)

Materials

Sensor tube: PBT, colour similar to RAL 7016
Housing (lower part): PBT, colour similar to RAL 7016
Display: PC, transparent
Cover: PC, colour similar to RAL 7016
Ring: PBT, colour similar to RAL 5015
Seal: EPDM

Degree of protection

Housing (OPP-SENS): IP65
Sensor tube: IP20

Cable entry

Strain relief: 2 x M16 and 2 x M12 (PA), colour similar to RAL 7001
Connection: removable spring terminals
Wire cross-section: 0.2 - 1.5 mm²

Ambient conditions

Operating temperature: -10 - 50 °C
Humidity: 0 - 95 % RH (non-condensing)
Minimum air velocity: 0.3 m/s

Features

Loss-proof cover with 8 positions
Housing with IP65 protection class
Fast wiring thanks to screw cover and tool-free spring terminals
Self-calibrating with self-diagnostics
Maintenance-free
Mounting possible in vertical or horizontal airflow direction
3 analog voltage outputs, fully configurable
(min./max. value and output variable)

Optional

Display with NFC interface

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Modbus or BACnet version
VOC sensor
2 analog inputs (readable via Modbus)
1 relay output (1 x C/NO/NC) for two-point control
with configurable input, setpoint, and hysteresis

Interested in or have questions about QMS?

Our experts can support you with the application of this product in your project or installation.

Contact experts +32 (0)16 29 93 00