

Duct Air Quality Sensor

Duct air quality sensor for detection of CO₂ with 0 to10 V output. Optional integrated temperature, humidity, VOC sensors and LCD display.





Type Overview

Туре	Output Signal Active CO ₂	Output Signal Active Temperature
22DC-13	420 mA	-
22DTC-13	420 mA	420 mA

Technical Data		
Electrical Data	Power Supply DC	1524 V, ±10%, 1.5 W
Elosatour Bata	Cable Entry	cable gland PG11 Ø6 to 10 mm, with strain relief Ø6 to 8 mm, 1/2" conduit adapter included
Functional Data	Sensor Technology	NDIR (non dispersive infrared) with stainless steel wire mesh filter, dual channel calibration
	Output Signal Active Note	current output: max. 500 Ω load
	Media	air
Measuring Data	Measured Values	CO ₂
		temperature
	Measuring Range CO₂	0 to 2000 ppm
	Measuring range temperature	32°F to 120°F [0°C to 50°C]
	Accuracy CO ₂	±(50 ppm + 3% of measuring value)
	Accuracy temperature passive	±0.5 °C @ 21 °C
	Operating Condition Air Flow	min. 1 ft/s [0.3 m/s] max. 33 ft/s [10 m/s]
Materials	Cable Gland	PA6, black
	Housing	cover: lexan, Belimo orange NCS S0580- Y6OR
		base: lexan, Belimo orange NCS S0580- Y6OR
		seal: 0467 NBR70, black
	Probe Material	PA6, black



Sensor Datasheet	22DC13
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Safety Data

Ambient Humidity	85% RH non-condensing
Ambient Temperature	32°F to 120°F [0°C to 50°C]
Medium Temperature	32°F to 120°F [0°C to 50°C]
Operating Condition Air Flow	min. 1 ft/s [0.3 m/s] max. 33 ft/s [10 m/s]
Protection Class IEC/EN	III safety extra-low voltage (selv)
Protection Class UL	UL Class 2 Supply
EU Conformity	CE Marking
Certification IEC/EN	IEC/EN 60730-1
Certification UL	cULus acc. to UL60730-1A/-2-9, CAN/CSA E60730-1:02/-2-9, CE acc. to 2004/108/EC and 2006/95/EC, NEMA 4X, IP65, UL Enclosure Type 4X
Degree of Protection IEC/EN	IP65
Degree of Protection NEMA/ UL	NEMA 4X
Quality Standard	ISO 9001
Weight	0.26 lbs

Remarks

Information Self-Calibration Feature CO2

All gas sensors are subject to drift caused by components, resulting in regular re-calibration or replacement units. However the dual channel technology integrates automatic self-calibration technology vs common used ABC-Logic sensors. Dual channel self-calibration technology is ideally suited for applications operating 24/7 hours such as hosiptals or other commercial applications. Manual calibration is not required.

Accessories

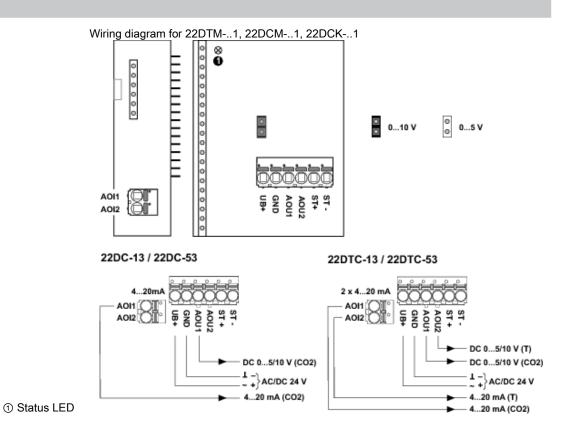
Scope of	Delivery
Ontional Acc	essories

mounting flange

Description	Туре
Replacement filter Stainless steel, wire mesh	A-22D-A06



Wiring Diagram



Dimensions

