

Duct Sensor CO₂

Type Overview

For CO₂ measurement in duct applications. Dual channel CO₂ technology. NEMA 4X / IP65 rated enclosure.





	Туре	Output signal active CO ₂	Output signal active VOC	Output signal active temperature	Output signal passive temperature	Output signal active CO₂/VOC
	22DC-11	DC 05 V, DC 010 V	-	-	-	-
	22DC-110L	DC 05 V, DC 010 V	-	-	NTC10k (10k2)	-
	22DCK-11	DC 05 V, DC 010 V	DC 05 V, DC 010 V	DC 05 V, DC 010 V	-	DC 05 V, DC 010 V
	22DCM-11	DC 05 V, DC 010 V	DC 05 V, DC 010 V	DC 05 V, DC 010 V	-	-
	22DCV-11	DC 05 V, DC 010 V	DC 05 V, DC 010 V	-	-	-
	22DTC-11	DC 05 V, DC 010 V	-	DC 05 V, DC 010 V	-	-
Technical Data						
Electrical o		Power Supply DC Power Supply AC		1524 V, ±10%, 1.5 W 24 V, ±10%, 2.9 VA		
		Electrical connection		Removable spring loaded terminal block max. 2.5 mm ²		
		Cable entry		cable gland PG11 Ø610 mm, with strain relief Ø68 mm		
	Functional data	Sensor Technolog	у	NDIR (no steel wire	on dispersive infra e mesh filter	red) with stainless
		Output signal active note		Output DC 05/10 V with Jumper adjustable Voltage output: min. 10 $k\Omega$ load		
		Media		Air		
	Measuring data	Measuring range CO ₂ Measuring range humidity Accuracy CO ₂ Accuracy humidity Accuracy temperature		CO ₂ VOC Mix CO ₂ /VOC Temperature		
				02000 ppm		
				0100% rH		
				±75 ppm; >750 ppm: ±10% of measuring value		
				±2% between 1090% rH @ 21 °C		
				±1% of measuring range @ 21 °C NTC10k (10k2): ±0.22 °C @ 25 °C		
		Operating condition	n air flow	min. 0.3 max. 10		



	Sensor Datasheet	22DC11		
Materials	Cable gland	PA6, black		
	Housing	Cover: Lexan, Belimo orange NCS S0580- Y6OR Bottom: Lexan, Belimo orange NCS S0580- Y6OR Seal: 0467 NBR70, black		
	Probe material	PA6, black		
Safety data	Ambient humidity	85% r.h., non-condensing		
	Ambient Temperature	050 °C [32122 °F]		
	Operating condition air flow	min. 0.3 m/s max. 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	pending		
	Degree of protection IEC/EN	IP65		

Safety notes



The installation and assembly of electrical equipment should only be performed by authorized personnel.

The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

NEMA 4X ISO 9001

Please comply with

Quality Standard

Degree of protection NEMA/UL

- · Local laws, health & safety regulations, technical standards and regulations
- · Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

Remarks

Information Self-Calibration Feature CO₂

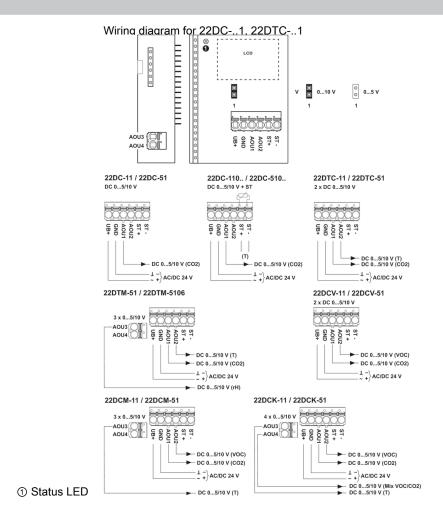
All gas sensors are subject to drift caused by components, resulting in regular re-calibration or replacement units. However the dual channel technology integrates automatic self-calibration technology vs common used ABC-Logic sensors. Dual channel self-calibration technology is ideally suited for applications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

Accessories

Scope of delivery Mounting flange



Wiring diagram





Dimensions

