

Duct Sensor CO₂

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





22D..C.-13

Type Overview

Output signal active CO ₂	Output signal active temperature
420 mA	-
420 mA	420 mA
	active CO₂ 420 mA

Technical Data

Electrical data	Power Supply DC	1524 V, ±10%, 1.5 W
	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 Technology	NDIR (non dispersive infrared) with stainless steel wire mesh filter
	Output signal active note	Current outout: max. 500 Ω load
	Media	Air
Measuring data	Measured values	CO₂ Temperature
	Measuring range CO ₂	02000 ppm
	Accuracy CO₂	±75 ppm; >750 ppm: ±10% of measuring value
	Accuracy humidity	±2% between 1090% rH @ 21 °C
	Operating condition air flow	min. 0.3 m/s max. 10 m/s
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
	Degree of protection NEMA/UL	NEMA 4X
	Quality Standard	ISO 9001



Remarks

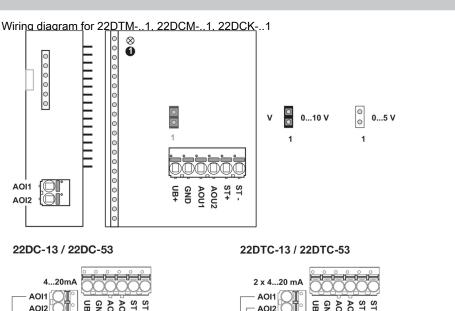
Information Self-Calibration Feature CO₂

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 commerical applications. Manual calibration is not required.

Accessories

Optional accessories	Description	Туре
	Mounting flange for duct humidity and CO ₂ sensor	A-22D-A35
Scope of delivery	Mounting flange	

Wiring diagram



GND UB₁ ST + ST GND Pon AOU Вł AOU ST A012 A012 DC 0...5/10 V (T) DC 0...5/10 V (CO2) DC 0...5/10 V (CO2) ⊥ _ ~ +}AC/DC 24 V 4...20 mA (CO2) 4...20 mA (T) 4...20 mA (CO2)

① Status LED





Dimensions



