

		Features
	CE	- Continuous monotoring
		- Low zero point drift
		- Poisoning stable
		- Long life sensor
		- Easy maintenance/calibration
		- Reverse polarity protected
		- Overload protected
	LNO2	- 4-20mA loop-powered or 2-10Vdc output signal
Technical Data		Application
Gas	Nitrogen Dioxide	For detection of nitrogen dioxide (NO2) within a wide range of commercial applications such as vehicle exhaust in parking structures (e.g. underground garages) engine repair shops, tunnels equipment rooms and ventilation systems etc.
Detection principle	Electrochemical, diffusion	
Stability & resolution	+/- 0,2ppm	Due to the analogue signal 4-20mA and 2-10Vdc the NO2 transmitter is compatible to any electronic analogue control, DDC/PLC control or automation system.
Repeatability	+/- 2%	
Long term sensitivity	<2%/month.	
Response time	t90 <25 sec.	
Sensor coverage	400m2	
Storage time	6 months	
Mounting height	0,2 metres above floor	Ordering Codes
Output signal		Wall Mounting
4-20mA	load < 500ohm overload and short circuit proofed	-
2-10Vdc	load < 50kohm overload	LNO2 020VC 0-20ppm 4-20mA/2-10Vdc
	and short circuit proofed	
Power supply Power consumption	18-28Vdc (reverse polarity prot.) 22mA, max (0,6VA)	
Expected lifetime	>2 years,normal	StainEnclosure of stainless steelToolTool for opening holes in stainless steel enclosure
Humidity range Continuous	operating enviroment	
	15-90% rH non-condensing	/GCDProtocol for CDA-seriesGAS 17Calibration gas 17 liter
		REG Pressure regulator flow adjusted to 0,5 lit/min.
Operating range		Warning devices See special datasheet
Continuous	-10 up to +50C	Warning signs See special datasheet
Rating	IP44 Protection Class	
Pressure range	Atmospheric +/-10%	

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Nitrogen Dioxide Detector

LNO2

Technical Data continue Physical Characteristics

Enclosure	GW Plast 75 GWT
Flammability	UL94: VO Halogenfree
Enclosure colour	RAL 7032 (light grey)
Dimensions	80 x 40mm
Weight	Approx. 0,2kg
Installation	Wall mounting
Cable entry	Standard 3 pieces
Wire connection	Screw type terminal min. 0,25mm2 and max 2,5mm2
	Max. loop resistor 500ohm (= wire resistor + controller input resistor)
Guidelines	EMV-Directive 89/336/EWG, CE EM-Directive 2004/108/EWG, CE

Maintanance

At commissioning and at periodic intervals determined by the person responsible for the gas detection system (recommendation every year).

After exchange of the sensor

If in case of operational or climatic influences the sensitivity of the sensor **falls below 30 %** in operation, calibration will not be possible any more.

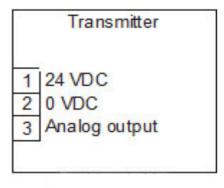
Then the sensor has to be changed.

Exchange of sensor element

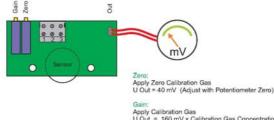
Sensor should always be installed without power applied:

- Unplug basic PCB EC-S carefully from the terminal blocks on the base.
- Unplug old sensor element from the PCB EC-S.
- Plug in sensor element into the PCB EC-S.
- Plug in the PCB EC-S into terminal block carefully.
- Calibrate

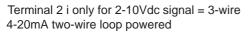
Connecting Diagram

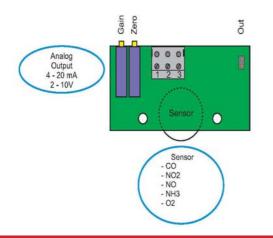


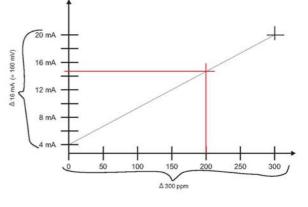
Calibration



Apply Calibration Gas U Out = <u>160 mV x Calibration Gas Concentration (ppm) + 40 mV</u> Measuring range (ppm) (Adjust with Potentiometer Gain)







Calculation output signal

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