

Nitrogen Dioxide Detector Analogue + Relay Output + RS485 NO2



Display-version





NO2 Duct

NO2 Wall

(6

Technical	Data		
		Nitra and all solution	Appl
Gas		Nitrogen dioxide	For de
Detection principle		Electrochemical, diffusion	indust
Accuracy		0,1ppm	garage shelte
Repeatability		<2% of reading	Due to
Long term output drift Response time		<2% signal loss/month t90 <60 sec.	NO2 t GCD a syster
Storage time		Max 3 months	Orde
Mounting height		0,2 metres above floor	Manua NO2 0
Output signal		(0)4-20mA, load 500ohm	
	Selectable Starting point	(0)2-10Vdc, load 50kohm	Calibr
	Relay 1 Relay 2	30Vac/dc, 0,5A, pot.free SPDT Dito SPNO/SPNC	NO2 0
	Consumption	30mA, max 0,8VA	/MOD /CUST
Serial Interface			/GCD
	Transciever Protocol	RS485/19200 Baud/9600 at Mod Depending in version	/REL I /DUC1
Power supply		18-28Vac/dc,reverse polarity prot. for 2-wire mode only Vdc	/LCD /CAL 2
Power consumption		22mA max (0.6)/(A)	/HEAT
	Analogue Bus mode	22mA, max (0,6VA) 12mA, max.(0,3VA	/BUZZ /STAII
Expected lifetime Humidity range Operating range		2 years,normal operating envirom. 15-90% rH non-condensing 10 up to +45C	/SERV /AIN GAS 1 REG
Rating Pressure range		IP65 Protection Class Atmospheric +/-15%	Warni Warni

Features

- Digital measurement values
- Comfort calibration with selective access release
- Continuous monotoring
- Low zero point drift
- Poisoning stable
- Long life sensor
- Modular plug-in technology
- Easy maintenance/calibration
- Reverse polarity protected
- Overload protected and short circuit proof
- 4-20mA or 2-10Vdc output signal
- 2 relays output adjustable switching thresholds
- Manual adresseing for RS485 mode. eg. Modbus

Application

For detection of nitrogen dioxide within a wide rnage of industrial and commercial applications such as undergrpund garages, engine repair shops, tunnels, enginé test benches, shelters and loading bays with diesel-engined vehicles.

Due to the standard output signal and the RS485 interface the NO2 transmitter is compatible to the Gas Controller GCM and GCD as well s to any other electronic control or automation system

Ordering Codes

Manual calibration via potentiometer

NO2 020VC 0-10/0-20ppm

Calibration and adressing by service Tool

NO2 020VCT 0-10/0-20ppm

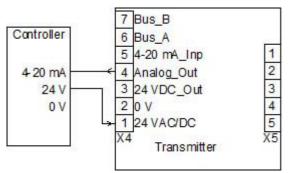
/MOD /CUST	Protocol for Modbus Protocol for customers specifications		
/GCD	Protocol for GCD-series		
/REL NO2	Relay pack see rear side		
/DUCT	Duct Mounting		
/LCD /CAL 2 /HEAT /BUZZ /STAIN	Two lines, 16 characters each Calibration Kit for Tox-transmitters Temp.controlled heating element 3C +/-2C0,3VA Internal warning summer 85dB Enclosure of stainless steel		
/SERV	Service Tool with Keyapad and LCD-display		
/AIN	4-20mA analogue input		
GAS 17	Calibration gas 17 liter		
REG	Pressure regulator flow adjusted to 0,5 lit/min.		
Warning d Warning si	·		
	Automatiknroduktor		

Automatikprodukter

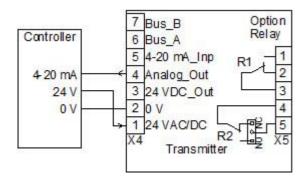
Nitrogen Dioxide Detector Analogue + Relay Output + RS485 NO2

Physical Characteristics

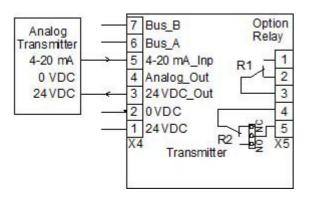
Enclosure	Polycarbonate
Flammability	UL94: V2 Halogenfree
Enclosure colour	RAL 7032 (light grey)
Dimensions	94x130x57nn
Weight	Approx. 0,5kg
Installation	Wall mounting
Cable entry	Standard 1xM20
Wire connection	Screw type terminal min. 0,25mm2 and max 2,5mm2
Wire distance	Current signal cirka 500m Voltage signal cirka 200m
Guidelines	EMV-Directive 89/336/EWG, CE EM-Directive 2004/108/EWG, CE



Two-wire connection, 4-20mA output signal without option



Three-wire connection, Vdc or 0-20mA output signal Relay output, LCD display, Heating



Connection analogue transmitter Two- or three wire connection, depending on transmitter type

Relay Package

The two relays are activated in depence of the gas concentraion.

If the gas concentration exceeds the adjusted alarm threshold, the corresponding relay switches on.

If the gas concentration falls below the threshold minus hysteresis, the relay switches off again.

The contact function for relay 2, NC (normally closed) or NO (normally open), can be selected via jumper NO/NC. See fig.1 and 3.

Relay one is equipped with a change-over contact.

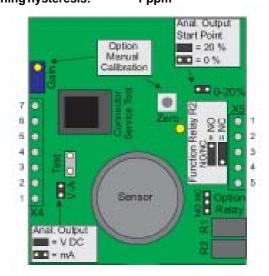
Via the Modbus interface the two alarm thresholds and the hysteresis are freely adjustable at the PC within the measuring range.

The procedure can be read from the user manual Modbus Software.

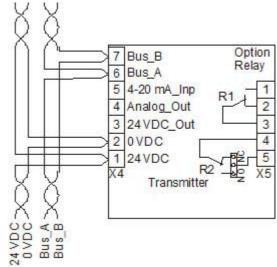
The following parameters are factory set.

Alarm threshold 1 = Relay 1: 2 ppm Alarm threshold 1 = Relay 2: 5 ppm

Switching hysteresis: 1 ppm



GCD-05 Bus mode



Connection field bus and tension

Automatikprodukter