





O2 Duct

(€



Technical Data

reonnour	Dutu	
Gas		Oxygen O2
Detection principle		Electrochemical, diffusion
Measuring range		0 - 25 vol. %
Accuracy		+/- 0,1 vol. %
Long term output drift Response time		<4% signal loss/year t90 <15 sec.
Storage time		Max 6 months
Mounting height		1,5 to 1,8 metres above floor
Output signa	Selectable Starting point Relay 1 Relay 2	(0)4-20mA, load 500ohm (0)2-10Vdc, load 50kohm 0/20% 30Vac/dc, 0,5A, pot.free SPDT Dito SPNO/SPNC potential free 30mA, max 0,8VA
Serial Interfa	ce Transciever	RS485/19200 Baud/9600 at Mod
Power supply Power consumption		18-28Vac/dc,reverse polarity prot. for 2-wire mode only Vdc 22mA, max (0,6VA)
Expected lifetime		2 years, normal operating envirom.
Humidity range Short time		5-95% rH non-condensing 0-99% rH non-condensing
Operating range Rating		-10 up to +50C IP65 Protection Class
Pressure range		Atmospheric +/-10%

Features

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- Digital measurement value processing incl. temperature compensation
- Comfort calibration with selective access release
- **Continuous monotoring** _
- Low output 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

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For detection of oxygen in rooms where changes of the oxygen cencentration are possible, such as laboratories and food production etc.

Due to the standard output signal and the RS485 interface the O2 transmitter is compatible to the Gas Controller GCM and GCD as well s to any other electronic control or automation system

Ordering Codes

Wall Moun	ting Manual calibration via potentiometer		
O2 025VC	0-25 vol. %		
	Service Tool		
O2 025VC	T 0-25 vol. %		
/MOD	Protocol for Modbus		
/GCD	Protocol for GCD-series		
/REL	Relay pack see rear side		
/DUCT /LCD CAL 2	Duct Mounting Two lines, 16 characters each Calibration Kit for Tox-transmitters		
/HEAT /BUZZ /STAIN	Temp.controlled heating element 3C +/-2C0,3VA Internal warning summer 85dB Enclosure of stainless steel		
/SERV /AIN GAS 17	ervice Tool with Keyapad and LCD-display 20mA analogue input libration gas 17 liter		
REG Warning d Warning si	I		

Automatikprodukter

Oxygen **Gas Detector**

Physical characteristics

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Enclosure	Polycarbonate, halogen-free	The two r
Flammability	UL94 V2	concentra
Enclosure colour	RAL light grey	If the gas threshold
Dimensions WxHxD	94 x 130 x 57mm	If the gas
Weight	approx 0,5kg	Hysteresi
Cable entry	Standard 1 x M20	The conta (normally See fig.1
Wire connection	Screw terminal,	Relay one
	min 0,25mm2 and max 2,5mm2	
Wire distance	Current signal 500m Voltage signal 200m	Via the M hysteresis measurin The proce Software.
Guidelines	EMC Directive 89/336/EEC	Soltware.
Warning buzzer Accoustic pressure Frequency Power consumption	85db (distance 300m) 3,5 kHz 30mA, (max 0,8VA)	The follov Alarm thi Alarm thi Switchin
LCD display LCD Power consumption	Two lines, each 16 characters 10mA (max 0,3VA)	ownorm
Heating	30 ±/-20	

Temperature controlled Ambient temperature **Power supply Power consumption**

3C +/-2C -40C 18-28Vdc/ac 0,3A,7,5VA

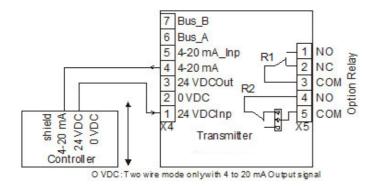
Analogue input

transmitter

Only for RS-485 mode

4-20mA overload and short-circuit proof, input resistance 2000hm Power supply for external 24Vdc max.50mA

Connecting Diagram



Relay Package

relays are activated in depence of the gas raion.

is concentration exceeds the adjusted alarm d, the corresponding relay switches on.

is concentration falls below the threshold minus is, the relay switches off again.

tact function for relay 2, NC (normally closed) or NO y open), can be selected via jumper NO/NC. and 3.

ne is equipped with a change-over contact.

Modbus interface the two alarm thresholds and the is are freely adjustable at the PC within the ng range. cedure can be read from the user manual Modbus

owing parameters are factory set.

nreshold 1 = Relay 1: 19 vol % nreshold 1 = Relay 2: 17 vol % ng hysteresis: 1 vol %

