





O2 Wall

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Features

- Digital measurement value processing incl. temperature compensation
- Comfort calibration with selective access release
- **Continuous monotoring**
- Low output drift
- Poisoning stable
- Modular plug-in technology
- Easy maintenance/calibration
- Manual adressing for RS485 mode. eg. Modbus



O2 Duct

Technical Data

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.
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Storage time Max 6 months

Mounting height	1,5 to 1,8 metres above floor
	combustion application
	Others see AP. webbside
Output signal	(0)4-20mA, load <500ohm 0,02mA
Selectable	(0)2-10Vdc, load >50kohm 0,02V

Starting point 0/20% 30Vac/dc, 0,5A, pot.free SPDT Relay 1 Relay 2 Dito SPNO/SPNC potential free

Consumption 30mA, max 0,8VA

Serial Interface

Transciever	RS485/19200 Baud/9600 at Mod
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Power supply 18-28Vac/dc, reverse polarity prot.

for 2-wire mode only Vdc

Power consumption 22mA, max (0,6VA)

Expected lifetime 2 years, normal operating envirom.

Humidity range 5-95% rH non-condensing

> Short time 0-99% rH non-condensing

Operating range -10 up to +50C

Rating IP65 Protection Class

Pressure range Atmospheric +/-10%

Application

For detection of oxygen in rooms where changes of the oxygen concentration 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

SERV

GAS 17

Warning devices

Warning signs

AIN

REG

Ordering Codes		
Wall	Manual calibration via potentiometer	
O2 025	0-25 vol. %	
	Service Tool	
O2 025T	0-25 vol. %	
MOD	Parts and for Mandleys	
MOD	Protocol for Modbus	
GCD	Protocol for GCD-series	
REL	Relay pack see rear side	
DUCT	Duct Mounting	
LCD	Two lines display, 16 characters each	
CAL 2	Calibration Kit for Tox-transmitters	
HEAT BUZZ	Temp.controlled heating element 3C +/-2C0,3VA Internal warning summer 85dB	
STAIN	Enclosure of stainless steel	

Automatikprodukter

Service Tool with Keypad and LCD-display

Pressure regulator flow adjusted to 0,5 lit/min.

See special datasheet

See special datasheet

4-20mA analogue input

Calibration gas 17 liter



Physical characteristics

Enclosure Polycarbonate, halogen-free

Flammability UL94 V2

Enclosure colour RAL light grey

Dimensions WxHxD 94 x 130 x 57mm

Weight approx 0,5kg

Cable entry Standard 1 x M20

Wire connection Screw terminal.

min 0,25mm2 and max 2,5mm2

Wire distance Current signal 500m

Voltage signal 200m

Guidelines EMC Directive 2004/108/EC

EN 61010-1:2010

Warning buzzer

Accoustic pressure 85db (distance 300m)

Frequency 3,5 kHz

Power consumption 30mA, (max 0,8VA)

LCD display

LCD Two lines, each 16 characters

Power consumption 10mA (max 0,3VA)

Heating

Temperature controlled 3C +/-2C Ambient temperature -40C

Power supply 18-28Vdc/ac Power consumption 0,3A, 7,5VA

Analogue input

Only for RS-485 mode 4-20mA overload and short-circuit

proof, input resistance 200ohm

Power supply for external 24Vdc max.50mA

transmitter

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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 $\mbox{\sc minus}$

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

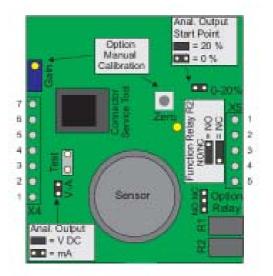
measuring range.

The procedure can be read from the user manual Modbus

Software.

The following parameters are factory set.

Alarm threshold 1 = Relay 1: 19 vol %
Alarm threshold 1 = Relay 2: 17 vol %
Switching hysteresis: 1 vol %



Connecting Diagram

