О3 Sep.11





O3 Wall



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O3 Duct

Gas	Ozone	О3
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Detection principle Electrochemical diffusion

Accuracy 0,1 ppm

Repeatability <5% of reading

Long term output drift <2% of signal loss/month

t90 <60 sec. Response time

Mounting height 300mm above floor

Storage time Max 3 months +5/+30C

Output signal (0)4-20mA, load 500ohm

Selectable (0)2-10Vdc, load 50kohm

Starting point 0/20% proportional

Relay 1 30Vac/dc, 0,5A, pot.free SPDT

Dito SPNO/SPNC Relay 2 Consumption 30mA, max 0,8VA

Serial Interface

Transciever RS485/19200 Baud/9600 at Mod

Power supply 18-28Vac/dc,reverse polarity prot

(2-wire mode only Vdc).

Power consumption

Analogue 22mA, max (0,6VA) Bus mode 12mA, max (0,3VA)

Expected lifetime 2 years normal operating enviro.

Humidity range 15-90% rH non-condensing

Operating range -10 up to +45C

Rating IP65 Protection Class Temperature range Atmospheric +/-15%

Features

- Digital measurement values
- Comfort calibration with selective access release
- **Continuous monotoring**
- Good stability to poising
- Low zero point drift
- Poisoning stable
- Long life sensor
- Modular plug-in technology
- Easy maintenance/calibration
- 2 relays output adjustable switching thresholds
- Manual adressing for RS485 mode. eg. Modbus

Description

O3 detector including digital measurement value processing and temperature compensation for the continuous monotoring of ozone concentration in the ambient air.

Integrated in the detector there is a comfortable calibration routine with selective access release..

For the detection of ozone within a wide range of industrial and commercial applications.

Ordering Codes

Manual calibration via potentiometer

O3 005 0--5ppm O3 010 0-10ppm O3 200 0-200ppm

Calibration and adressing by service Tool

O3 005T 0-5ppm O3 010T 0-10ppm 0-200ppm O3 200T

MOD Protocol for Modbus

CUST Protocol for customers specifications

GCD Protocol for GCD-series REL 03 Relay pack see rear side

DUCT Duct Mounting

LCD Two lines, 16 characters each CAL 2 Calibration Kit for Tox-transmitters

HEAT Temp.controlled heating element 3C +/-2C0,3VA

BUZZ Internal warning summer 85dB Enclosure of stainless steel STAIN

AIN 4-20mA analogue input **GAS 17** Calibration gas 17 liter

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

Warning devices See special datasheet Warning signs See special datasheet



Physical Characteristics

Enclosure Polycarbonate

Flammability UL94: V2 Halogenfree

Enclosure colour RAL 7032 (light grey)

Dimensions 94x130x57mm

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

Warning Buzzer 85dV (distance 300m)

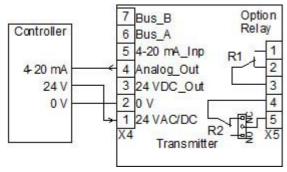
LCD Display Two lines, each 16 characters 3C +/-2C, -30C, 18-28Vac/dc Heating

Analogue input 4-20mA input resistance 200ohm

Only for RS-485 mode

Power supply Extern. transm. 24Vdc, max 50mA

Wiring



0Vdc: only with option

Cross Sensitivity

Concentration(ppm) Reaction (ppm)

Carbon Monoxide	200	0	
Sulphur dioxide SO2	5	0	
Nitorgen dioxide NO2	5	~5	
Nitrogen Oxide NO	35	0	
Hydrogen H2	200	0	
Chlorine Cl2	5	~4	
Ethylen2 C2H4	100	0	

We reserve the right to make changes and improvements in our products which may effect the accuracy of the information contained in this leaflet

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.

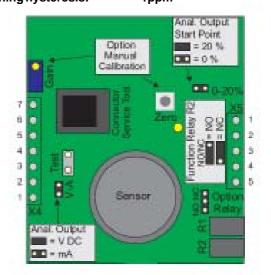
See fig.1 and 3.

Relay one is equipped with a change-over contact.

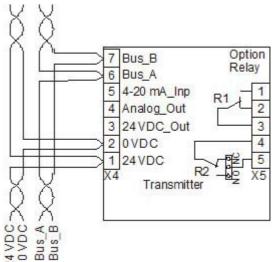
Via the Modbus interface the two alarm thresholds and the hysteresis are freely adjustable at the PC within the measuring range.

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

The following parameters are factory set. Alarm threshold 1 = Relay 1: 5ppm Alarm threshold 1 = Relay 2: 8ppm Switching hysteresis: 1ppm



GCD-05 Bus mode



Connection field bus and tension