

**O2-BLOCK - OXYGEN TRANSMITTER**  
**4 TO 20 MA , 2 WIRES OXYGEN TRANSMITTER**



### MAIN FEATURES

- *4:20 mA , 2-wire Oxygen transmitter*
- *Configurable span*
- *2 points calibration*
- *Linear output*
- *Temperature compensation*
- *Fast response*
- *Accurate and reliable*
- *Anti-interference*
- *IP66 Certified .*
- *IEC60529 Certified.*
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### DESCRIPTION

O<sub>2</sub> BLOCK is an advanced 4:20mA output 2 wires loop powered Oxygen Transmitter

O<sub>2</sub> BLOCK sensing element is an electrochemical oxygen sensor for oxygen concentration measurement and is designed specifically for medical equipment.

The sensor adopts molded body design, provides fast response and has long life .

O<sub>2</sub> BLOCK been calibrated before leaving the factory. To avoid the influence of temperature, temperature compensation function is applied in sensors.

O<sub>2</sub> BLOCK can be used as the sensing component in oxygen analyzer, such as control component in oxygen generator, medical ventilator, anesthesia equipment, incubator.

### TECHNICAL DATA

#### **Measurement range**

0-100%

#### **Output signal**

Signal span 4...20 mA , 2-wire

#### **Output limits**

3.5...23 mA

#### **Input Power**

From 7.5 VDC up to 30VDC For 4-20 mA , 2-wires configuration

**Characteristic**

Linear 0% to 100% O<sub>2</sub>

**Accuracy**

< ± 1% f.s.

**Isolation voltage**

500 Vac

**Temperature compensation**

< 2% O<sub>2</sub> equivalent (0 ~ 40 °C)

**Operating temp.**

0-50 °C

**Storage temp.**

-40-70 °C

**Long-term output drift in 100% O<sub>2</sub> (voltage loss/year)**

<5%

**Insulation resistance**

> 200Mohm/250VDC

**Vibration**

20g (20--5000HZ)

**Shock**

100g, 10ms

**Response time**

≤10 sec

## ELECTRICAL CONNECTIONS

### Cable entry

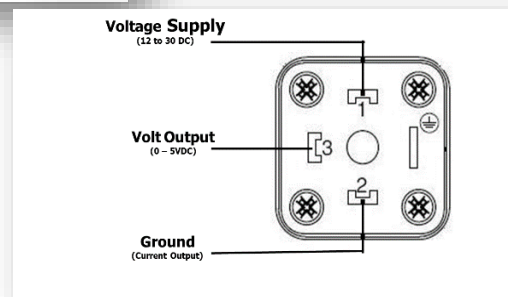
DIN43650A connector



### Cable Connection

PIN 1 – Input Power (12 – 30VDC)

PIN 2 – Ground , (4-20 mA output if selected)



## ADDITIONAL DESCRIPTION

The mounting of the O<sub>2</sub> BLOCK Transmitter ensures fast response time and high measuring accuracy.

Accessories are usually supplied separately and must be assembled by the customer. However, if you prefer the accessories to be assembled from the factory prior to delivery, please specify .

**LOOP POWERED INDICATOR (OPTIONAL)**

- *4 Digit Display.*
- *2 wires , no additional power supply required.*
- *High accuracy and stability. 0.2% of span  $\pm 1$  digit*
- *Visible in the dark environment.*
- *Easy to program using 2 push buttons.*
- *Compact Designed.*

**HOW TO ORDER****O<sub>2</sub> BLOCK – AA – BB – CC – OPTIONS**

AA - PRESSURE RANGE , PLEASE WRITE DIRECTLY

BB - PROCESS CONNECTION

G<sub>1/4</sub> (TYPICAL)

G<sub>1/2</sub>

OTHERS (PLEASE SPECIFY)

CC – TYPE OF OUTPUT

4 - 20 MA

0 – 5VDC

0 – 10VDC

OTHERS (PLEASE SPECIFY)

OPTIONS - PLEASE SPECIFY DIRECTLY.