



## TRIP AMPLIFIER

OS Ex GS-O2 is a (BUREAU VARITAS) ATEX approved having Input analog 0-20mA DC current or 0-5V voltage signal will operate a BUREAU VARITAS approved output relay if the input current / voltage level crosses the preset value.

## FEATURES

**BUREAU VARITAS (ATEX) certified (EPS 16 ATEX 1 019).**

Manufactured according to European standard EN 60079-0:12 and EN 60079-11:12. Intrinsically safe circuit is galvanically isolated from both main input and output control circuitry - **1500V, 50Hz**.

Measuring range is 0-5V or 0-20mA, other ranges can be obtained through series or parallel switching of the resistors. Convenient plug in terminals enable a zero time error-free maintenance and pre-wiring of the control panel.

## INSTALLATION

The unit can be clipped on to 35mm rail to DIN 46277 or fixed with 2 screws on 90mm centres.

## OPERATION

**Standard Preset :** Output relay remains de-energized when the voltage or current level is the below set point. Relay energizes when level reaches the set point.

## SWITCH POINT SETTING :

The switch point can be set with switches S1.1-S1.4 and the potentiometer.

### Switches

### Switch point set with potentiometer

|                                |                                 |
|--------------------------------|---------------------------------|
| All switches closed            | 0-11% of the measuring range    |
| Switch S1.1 open               | 10-21% of the measuring range   |
| Switch S1.2 open               | 20-31% of the measuring range   |
| Switch S1.3 open               | 30-41% of the measuring range   |
| Switch S1.4 open               | 40-51% of the measuring range   |
| Switch S1.1 + S1.4 open        | 50-61% of the measuring range   |
| Switch S1.2 + S1.4 open        | 60-71% of the measuring range   |
| Switch S1.3 + S1.4 open        | 70-81% of the measuring range   |
| Switch S1.1 + S1.3 + S1.4 open | 80-91% of the measuring range   |
| Switch S1.2 + S1.3 + S1.4 open | 90-101% of the measuring range  |
| All switches open              | 100-111% of the measuring range |

## TECHNICAL DETAILS ART. NO. : [ODD 006 W]

|  |   |
|--|---|
| <b>Power Supply Section</b>            | Terminals 9(+), 12(-)   |
| Supply Voltage (nominal)               | 24V DC $\pm$ 15%  |
| <b>Field Area Section</b>              |   |
| Input                                  | 0-20mA DC current, <b>OR</b> 0-5V DC voltage, terminals 1(-) & 3(+) |
| <b>Control Area Section</b>            |   |
| Output                                 | Potential free relay changeover contacts                            |
| Contact rating of relay                | 250V / 2A / Cos $\phi$ $\geq$ 0.7 at terminals 7 & 8 stage I        |
| <b>Certificate of Conformity</b>       | <b>EPS 16 ATEX 1 019</b>  |
| <b>Parameters</b>                      |   |
| Voltage u.                             | DC 12,6V  |
| Current I.                             | 42,4mA  |
| <b>Intrinsically Safety Parameters</b> |   |
| Explosion Group                        | IIC IIB   |
| Maximum External Capacitance           | 0,75mF 3,5mF  |
| Maximum External Inductance            | 0,5mH 1mH   |
| <b>Max. Ambient Temperature</b>        | <b>-20 to 55°C</b>  |
| <b>Weight</b>                          | <b>ca. 150g</b>   |

## FEATURE:

- \* Input 0-20mA DC current / 0-5V DC voltage
- \* Output Relay
- \* 22.5mm Width

## APPROVALS:

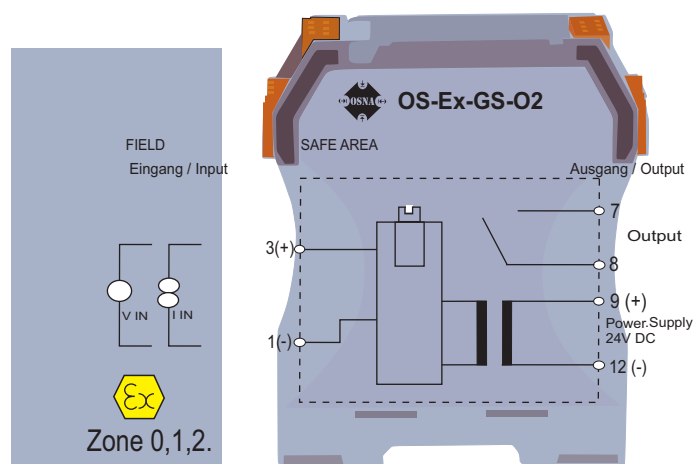
Confirming to EN 60079-0:2012 and EN 60079-11:2012.  
ZONE & GAS GROUP: ZONE1 & 2 Gas Group:IIC

BUREAU VERITAS Certificate No. **EPS 16 ATEX 1 019**.

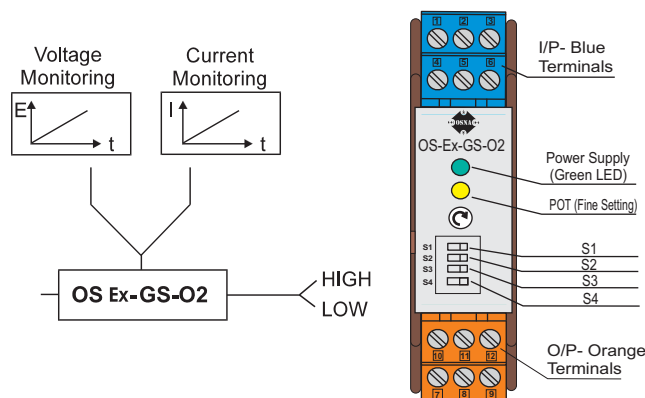
CIMFRA Approval No. **CIMFR/TC/P/2294**

PESO Approval No. **A/P/HQ/DL/104/5576(P410684)**

## CONNECTION



## ASSEMBLY



## DIMENSIONS

