

**RTD TO VOLTAGE CONVERTER**

The OS Ex RTD CC-1(VC) is a BUREAU VERITAS approved interface unit, to accept an RTD input signal and offers a proportional galvanically isolated (0-10V DC) voltage signal.

Customer's field requirements on actual RTD value to be specified while ordering (selection table on the type of RTD given below).

FEATURES :

Manufactured according to European standard EN 60079-0:12 and EN 60079-11:12. Input signal/output signal and the power supply are galvanically isolated from each other - **1500V, 50Hz.**

OPERATION :

The RTD is connected to the input and the compensation wire of the RTD, if available (in a 3-wire RTD) is connected to the terminal 1 of the unit. The output analog signal is available at output terminals 7 (+) & 8 (-) as voltage signal.

APPLICATIONS :

To enable a remote temperature measurement as a RTD to 0-10V DC voltage converter.

TECHNICAL DETAILS
ART. NO. : [ODA 026 W]

Power Supply Section	Terminals 9(+), 12(-)
Supply Voltage (nominal)	24V DC $\pm 10\%$
Power Consumption	1.5W (PT100 & PT1000)

Field Area Section

Input	Through RTD
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Fail Safe maximum Voltage U_m

Not Nominal Supply	250V r.m.s.
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Control Area

Output	0/4-20 mA.
Max. Load (R_L)	700 ohm

Parameters

Voltage u_o	DC 8.6V
Current I_o	26.5mA

Intrinsically Safety Parameters

Explosion Group	IIC	IIB
Maximum External Capacitance	1.2mF	4.5mF
Maximum External Inductance	2mH	10mH

Transfer Characteristics

Calibrated accuracy at 20°C	<20uA
Replaceable fuse	50mA & 125mA
Response Time	approx. 250mS (0-98% step)
Max. Ambient Temperature	Max. -20°C to 55°C
Span Adjustment through Poti I	Approx. 20% of span
Zero Offset Adjustment through Poti II	Approx. 5% of span

Weight	ca.150g
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Dimensions	105 x 92.4 x 22.5mm
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FEATURE:

- * DC 24 V operated.
- * Input 3 Wire RTD
- * Output 0-10VDC
- * 3 port Galvanic Isolation
- * 22.5mm Width
- * Clip onto 35mm rail as per DIN 46277

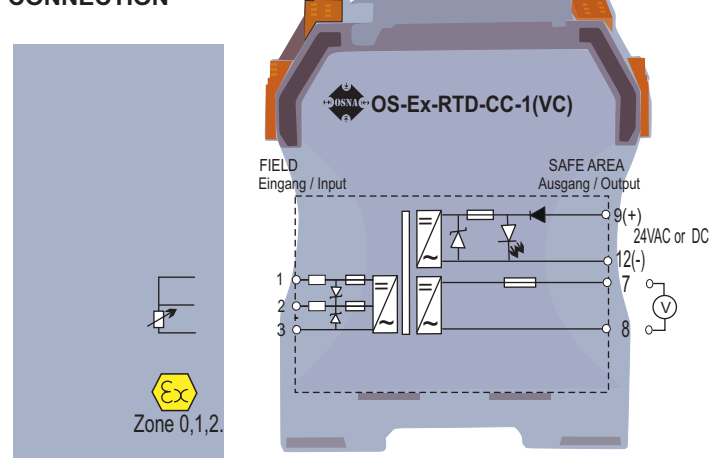
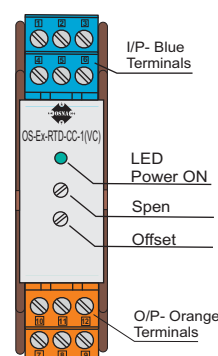
APPROVALS:

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.**

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

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

CONNECTION**SETTING & ASSEMBLY****DIMENSIONS**