

## V / mA TO CURRENT / VOLTAGE CONVERTER

The OS-USC is an interface unit, to accept a mA / volt as input signal and offers a proportional galvanically isolated PC Programmable mA / V signal.

The unit can be Programmed easily as per requirement of linearisation, testing and monitoring on actual VOLTAGE / CURRENT value that can be changed with the help of PC on the field.

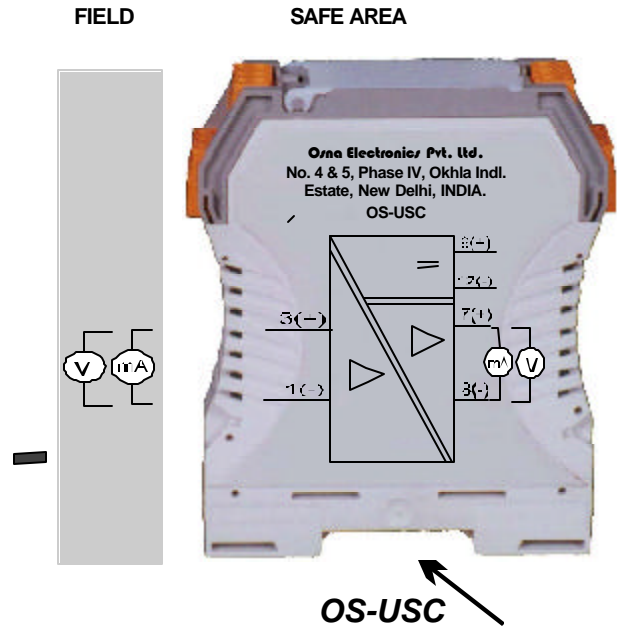
### FEATURES :

- \* 3 point Galvanic Isolation between Input / Output and Power Supply Terminal.
- \* Input 0-10V DC / 0/4-20mA.
- \* Output 0/4-20mA & 0-10V DC
- \* LED Indication for I/P selection Power Supply.
- \* Line fault indication
- \* 22.5mm housing Width

Manufactured according to European standard EN 50014 and EN 50020. Input signal/output signal and the power supply are galvanically isolated from each other at a level of - 1500V, 50Hz.

### OPERATION :

The VOLTAGE / CURRENT is connected to the input. connected to the terminal 1(-) and 3(+) of the unit. The analog signal is available at output terminals 7(+) and 8(-) as current / voltage signal.



Clip onto 35mm rail as per DIN 46277

Fig.1

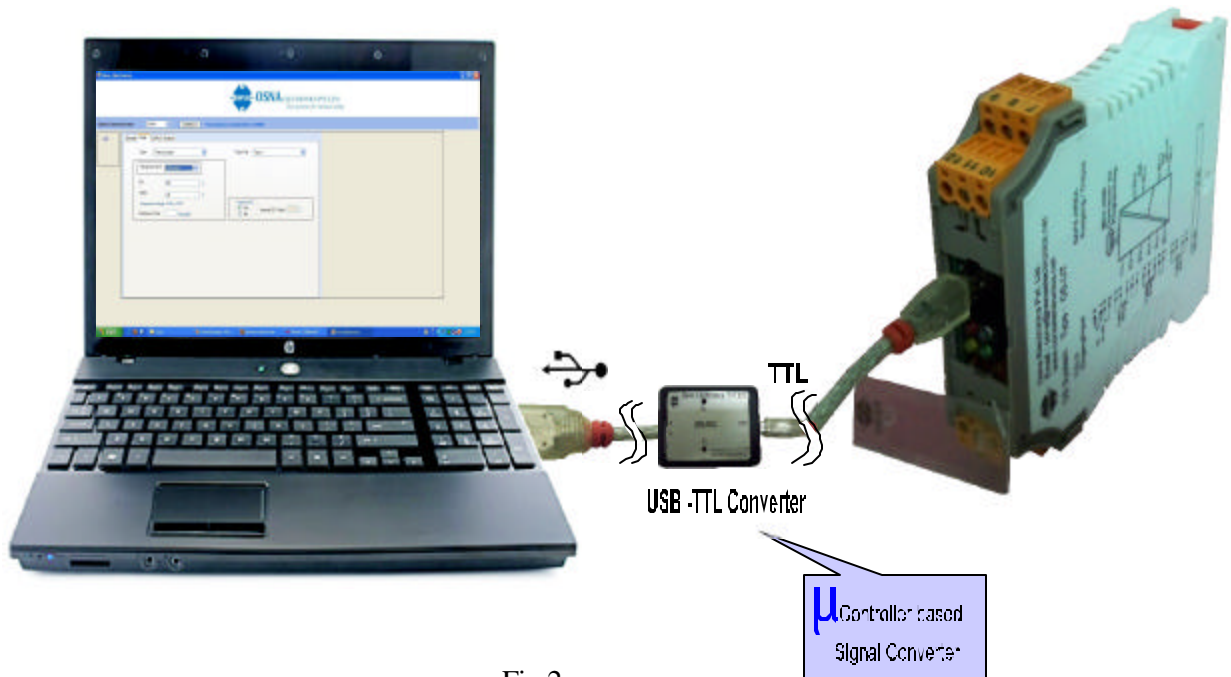


Fig.2

## TECHNICAL DETAILS

(ART. NO. : (ODA031WO)

**Number of channels** one  
**Location of signal source** field area  
**Input signal** 0/4-20mA / 0-10V DC

**Power Supply Section** Terminals 9(+), 12(-)  
**Supply Voltage (nominal)** **24VDC** ± 15%  
**Power Consumption** < 1.5 W

**Programming Section**  
 P C Interface via TTL Converter

**Fail Safe maximum Voltage  $U_m$**   
 Not Nominal Supply 250V r.m.s.

**Control Area**  
**Output at Terminals 7(+) & 8(-).** 0/4 -20mA/0-10V DC(As per Programming)  
**Max. Load ( $R_L$ )** 1000 ohm

### Transfer Characteristics

After calibration  
**Output voltage accuracy** ± 0.1 % at 10 V  
**Output mA accuracy** ± 0.1 % at 20mA  
**Temperature drifts at mA / V measurement value** ± 0.1 % / °C  
**Max. Ambient Temperature** Max. -20.....60°C

**Weight** ca.150g

**Accessories** TTL to USB Converter (USB-TTL)

**Dimensions** 105 x 92 x 22.5 mm

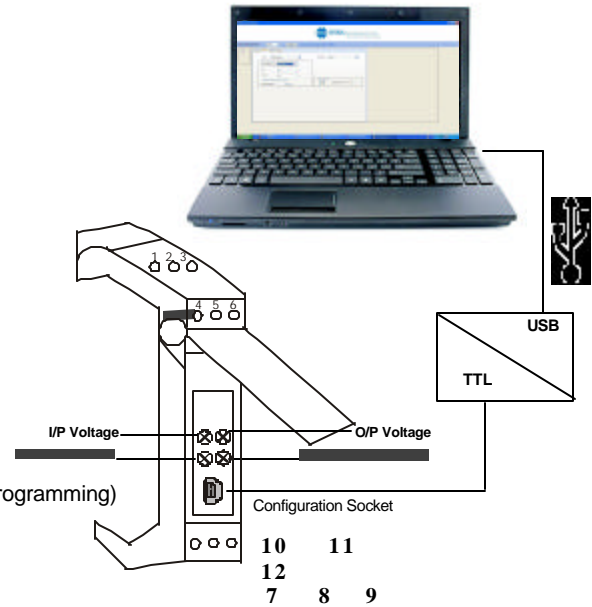


Fig.3

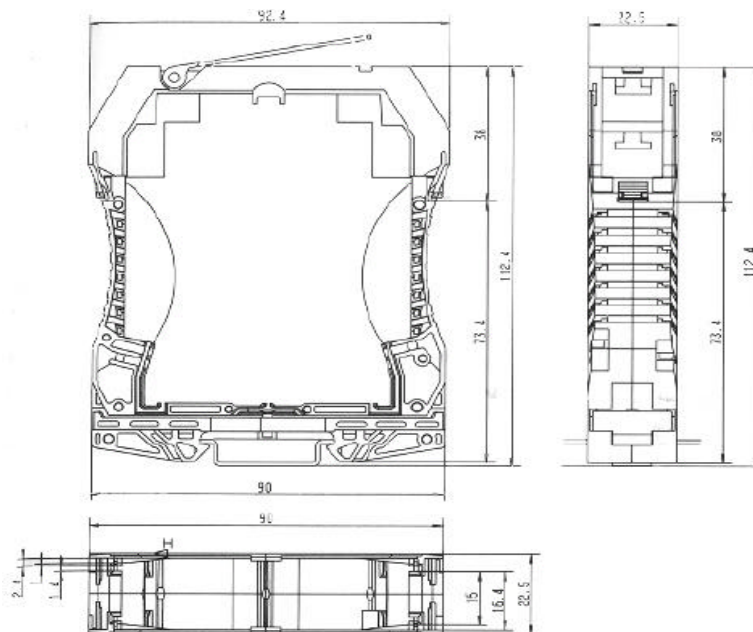


Fig.4