

# 3-way signal converter isolator

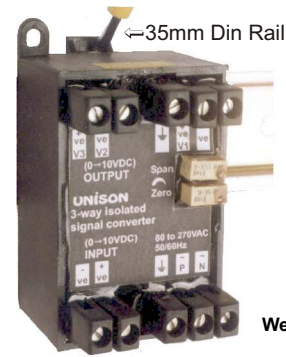
The UNISON make 3way Isolator signal converter(Transmitters) that accepts most common high level process signals (current and Voltage), isolates them electrically and physically, and converts them to another process signal.

This eliminates faulty readings in process measurement and control equipment caused by ground loops. Current loop, Motor noise ,instrumentation level shifts, high common mode rejection and other electrical interference as well as provide additional amplification of signal.

It is also possible to have two number voltage and one number current outputs simultaneously from a single input.

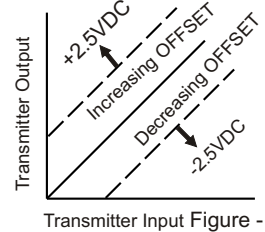
The isolator is available in AC powered versions only, having input/output optical isolation and at the same time galvanic isolation between supply and input/output.

All transmitters have two adjustments which are known as OFFSET(zero) and SPAN (gain). These adjustments allow the output signal to be varied considerably.

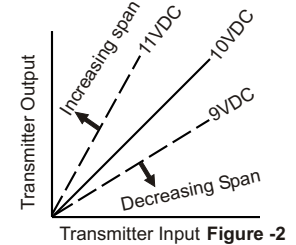


Weight : @150 gms.

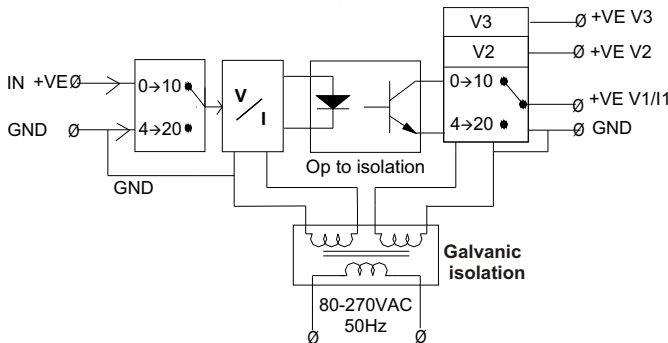
**OFFSET(zero)**  
This adjustment sets what is in effect the value of output when the input is zero.



**SPAN(gain)**  
The SPAN changes the slope of the relationships between input and output signals.



### Block Diagram



SR NO	Input	Output	@ Price per Each
1	0 10VDC	3 Nos. 0 10VDC	2600.00
2	0 10VDC 4 20mA	2 Nos. 0 10VDC 1 Nos. 4 20mA	3000.00
3	4 20mA	3 Nos. 4 20mA	3400.00
4	0 5VDC 4 20mA	0 5VDC Any Combination	Optional

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### Input specification

<b>Current</b>	4-20mA DC
<b>Voltage</b>	0 - 10VDC
<b>Selection</b>	By Bud Pin
<b>Impedance</b>	Voltage 1 mega ohm Current 10 ohm
<b>Protection</b>	Reverse connection/over voltage (32VDC)

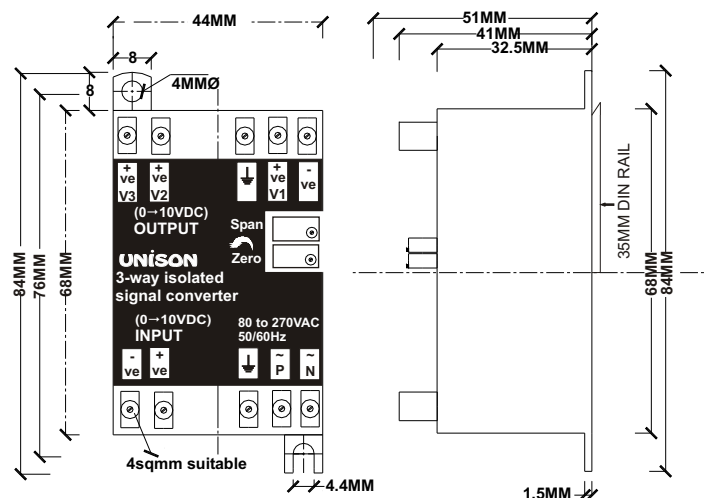
### Output specification

<b>Terminal *V1</b>	4-20mA DC current or 0 10VDC selection by Bud pin
<b>Terminal *V2</b>	0 10VDC Buffer
<b>Terminal *V3</b>	0 10VDC Buffer
<b>Current</b>	Max. Load 625 ohm
<b>Voltage Max.</b>	Current 30mA per channel
<b>Linearity</b>	0.05% full range
<b>Stability</b>	±0.02% / C°

\* Notes: Current and voltage outputs are not isolated from each other

### Generale specification

<b>Supply</b>	80-270VAC, 50/60Hz
<b>Power consumption</b>	4 watts max.
<b>Output Ripple</b>	10mv P/P. Maximum
<b>Response time</b>	<100ms for 70% on final reading
<b>Isolation</b>	Input&Output 1500VAC - optical Supply & Input - 1500VAC Galvanic Supply & Output - 1500VAC Galvanic
<b>Adjustability span</b>	± 10% of span
<b>Adjustability Zero</b>	± 2.5VDC of signal voltage
<b>Common mode rejection</b>	100db@50Hz



### Mechanical

<b>Mounting</b>	Din Rail or surface mounting
<b>Ambient</b>	0-55C°, 10-95% RH non-condensing
<b>Connection</b>	Terminal screw
<b>Cable Size</b>	4sq mm
<b>size</b>	44MM(W) X 84MM(L) X 51MM(H)
<b>weight</b>	150gms

Note : Prices & Specifications are subject to change without prior notice.