

## V - V Analog Signal Isolator



### MAIN FEATURES

- Applicable for isolation of pulsating DC and bipolar AC signals up to 2 kHz freq. without distortion
- Fast Acting Response Time < 1 msec
- Wide Range Of DC Inputs
- Accuracy better than +/-0.2% of FSD
- Linearity better than 0.1%
- Three Port 2 KV Isolation
- Wide range of DC supply
- Compact design saves panel space
- 35 mm DIN Rail Mounted
- Proven design. Thousands of existing installations

### APPLICATIONS

- DC Drive Feedback with isolation
- Isolating Buffers
- Ground Loop Isolation

The SIM Micro Series **V - V Isolator** units are characterized by their fast response time (<1msec). The 3 dB frequency of these units for sine wave inputs is observed to be greater than 2 kHz , thus no distortion for input signals having frequency components up to 2 kHz . This feature makes them desirable in applications where time varying or AC signals are present raiding on the DC input. These units are highly useful in isolation of Pulsating DC signals encountered in DC Drive feedback circuits, where it is important to preserve the wave shape as well as the phase relationship of the feedback signal . The unit provides 3 -port 2 kV isolation between input , output and supply

Various input/output combinations are possible besides the standard types given in this data sheet. The units are available with supply range of 18 - 36 V DC..These are very compact units Width 22.5 mm .and are suitable for mounting on 35 mm DIN std. Rail as well as on base plate.

Input	Output	Supply	Type No
0- +/- 60 mVDC	0 +/-10 VDC	18 - 36 V DC	I mVV 2D 6010 -3P
0- +/- 75 mV DC			I mVV 2D 7510 -3P
0 - +/- 5 V DC			I VV 2D 0510 - 3P
0 - +/- 10 V DC			I VV 2D 1010 - 3P
GENERAL SPECIFICATION			
Response Time	< 1 m sec	Operating temp. range	O - 55 Deg. C
Accuracy (% of F.S.)	0.2 %	Output Calibration	Zero & Span
Linearity (% of F.S.)	0.1 %	2KV Isolation Leakage current < 5mA	Between I/P & O/P Between I/P, O/P & Supply
DC Input Resistance I/P 0 +/- 60mVDC I/P 0 +/-75 m VDC	1 M Ohms	Mechanical Size	W - 22.5 mm H - 75 mm D- 110 mm
DC Input Resistance I/P 0 - +/- 5 VDC I/P 0 - +/- 10 V DC	100KOhms	Enclosure	ABS Plastic 35 mm DIN Rail Mounted.
Load Resistance Across Output	> 1KOhms		