

**TVL Series**

# DC1B2-5V Voltage Transducer

The TVL DC1B2-5V, by Aim Dynamics, is an optically isolated (4.5 kV) DC voltage sensing device. It's rated at 1000Vdc and outputs a proportional 0-5 Vdc.

The DC1B2-5V is a version of the DC1 that is designed for extreme environments, including temperature, humidity and EMI. Besides greater accuracy (0.5%), the DC1B2-5V is immune to conducted pulses and spikes up to at least 5KV on both the supply voltage and the input. The board is conformal coated to reduce issues resulting from humidity and temperature stress. Applications include fuel cell voltage conversion, DC to DC motor drives and remote solar field monitoring. This is the recommended product for both outdoor and high noise environments.

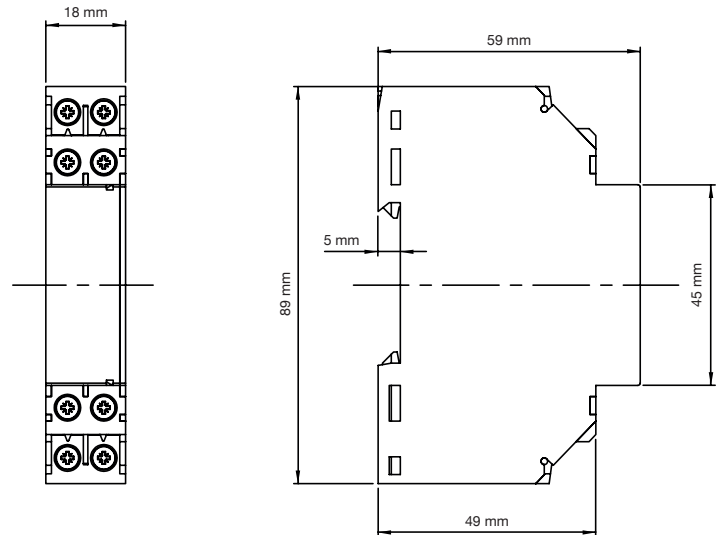


**SPECIFICATIONS**

Primary voltage range	50 – 1000VDC
Output	0-5 VDC
Accuracy	0.5% over range
Linearity	0.2% over range
Response time	0.2 secs to 90% voltage range
Working range	5 – 105%
Overload	150% continuous
Temperature	-30C to +70C operating
Humidity	90% operating
Isolation	4.5KV, 1 minute
Supply voltage	15 - 48VDC
Mechanical	DIN EN 50 022 or wall mounting
Dimensions	0.709"W x 3.504"H x 2.126"D
Warranty	7 years
Safety	Conforms to UL508C; CSA C22.2

**FEATURES**

- Isolated 1000 Vdc Input
- Low Voltage Output
- DIN Rail Mounting
- 0.5% Accuracy
- Screw Type Terminals
- Low Response Time
- Cost-Effective
- Unique serial numbers on each unit
- Each batch comes with a test report covering each unit



**APPLICATIONS**

- Solar string monitoring
- Power sensing
- Over/under voltage monitoring
- Battery & energy storage

**AVAILABLE MODELS**

- DC1B2-5 (0-5VDC Output)