

AIMDC-420 Series

The AIMDC-420 Series, by Aim Dynamics, is an optically isolated (3 kV) DC voltage sensing device. It's rated at 1000 Vdc or 100 Vdc, depending on the model, and outputs a proportional 4-20 mA DC signal.

The AIMDC exceeds 99.5% accuracy at any reading point in its defined voltage range, and is built to withstand harsh temperatures.

The AIMDC is compact and mounts on a DIN rail.

Ruggedized versions of the AIMDC are available, upon request, to withstand greater voltage spikes, electromagnetic interference, electromagnetic pulses, higher humidity, and more.



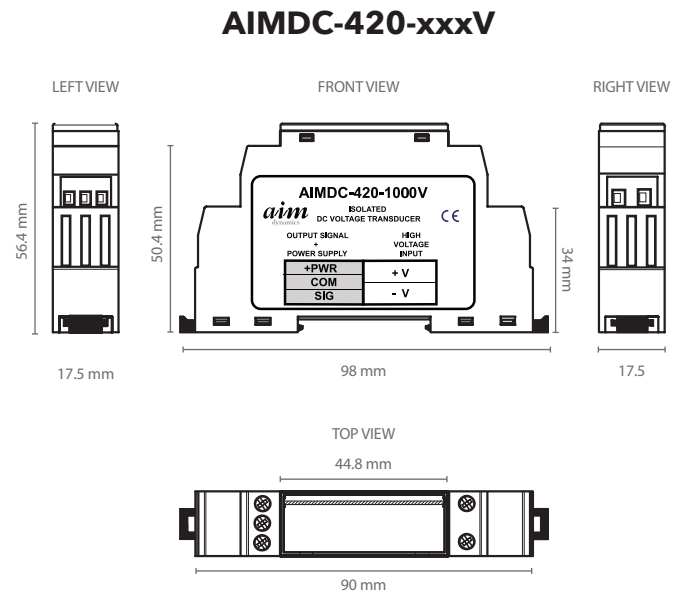
▲ SPECIFICATIONS

Primary voltage range	0 – 1000 Vdc; 0 - 100 Vdc
Output	4 - 20 mA
Accuracy	0.5% over range
Linearity	0.2% over range
Response time	10 ms to 90% voltage range
Working range	0 – 105%
Overload	150% continuous
Temperature	Operating: -35° C to +100° C Storage: -40° C to 100° C
Humidity	90% operating
Isolation	3 kVms, 1 minute
Supply voltage	15 - 36Vdc
Mechanical	DIN EN 50 022 or wall mounting
Dimensions	90 mm W x 56 mm H x 17.7 mm D
Warranty	7 years
Safety	Conforms to UL61800-5-1
Max Consumption	30 mA

▲ FEATURES

- Isolated 1000/100 Vdc Input (depends on model)
- Low Voltage Output
- DIN Rail Mounting
- 0.5% Accuracy
- Screw Type Terminals
- Low Response Time
- Cost-Effective
- Unique Serial Numbers on each unit (option available)
- Batch Test Reports (option available)

▲ PRODUCT DIMENSIONS



▲ APPLICATIONS

- Solar String Monitoring
- Power Sensing
- Over/Under Voltage Monitoring
- Battery & Energy Storage
- Hydrogen Fuel Cells

▲ AVAILABLE MODELS

- AIMDC-420-1000V (1000 Vdc Input)
- AIMDC-420-100V (100 Vdc Input)