

MAGNELAB

# DC Voltage Transducer

DVT-100, DVT-1000 and DVT-1500

DIN Rail Mounted Isolated Transducer

The DVT Transducer is designed to convert a DC Voltage input to either a 4-20 mA or a voltage standard output that is proportional to the input. It is also perfect for solar-string voltage monitoring. The transducer provides effective and safe isolation between the input and output. Each unit comes with a unique serial number and QR code for traceability. Ideal for outdoor & high noise environments. Units are immune to conducted pulses and spikes up to at least 5KV on both the supply voltage and the input.

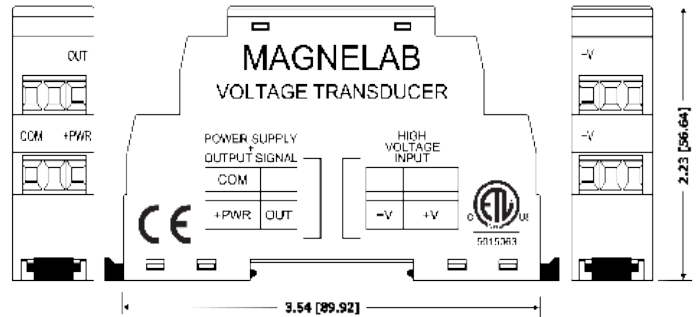
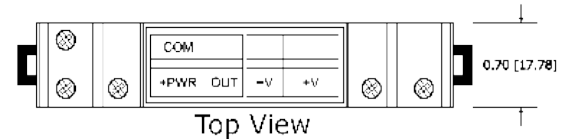


## SPECIFICATIONS

Primary Voltage	DVT-100: 0-100 Vdc
	DVT-1000: 0-1000 Vdc
	DVT-1500: 0-1500 Vdc
Output	4-20 mA, 0-1 Vdc, 0-5 Vdc (See chart below)
Accuracy	0.5%
Linearity	0.2%
Temperatures	Operating: -30°C to 70°C
	Storage: -40°C to 100°C
Humidity	90% operating
Response time	0.02 seconds to 90% voltage range
DIN Rail	EN 50 022
Terminals	Screw Type, Recommended torque:
	0.5 - 0.55 Nm / 4.5- 4.9 Lb-in
Warranty	7 Years
Safety	Conforms to UL508C; CSA C22.2
Operating Range	0- 105% 4-20 mA version
	5-105% 5 Vdc version
Overload	150% continuous
Isolation	4500 V, 1 minute
Supply voltage	15 - 48 Vdc
Weight	0.11 lbs (0.05 kg)

## APPLICATIONS

- Large DC Drives
- Voltage Monitoring in High EMI Environments
- Over/under voltage monitoring
- Battery & energy storage
- DC Generation, including remote solar field monitoring & fuel cell voltage conversion



Dimensions are in inches and millimeters

PART NO. & RATING	INPUT	OUTPUT	COLOR CODE
DVT-100-420	100 Volt	4-20 mA	YELLOW
DVT-100-V05	100 Volt	0-5 Vdc	PURPLE
DVT-1000-420	1000 Volt	4-20 mA	RED
DVT-1000-V01	1000 Volt	0-1 Vdc	GREEN
DVT-1000-V05	1000 Volt	0-5 Vdc	ORANGE
DVT-1500-420	1500 Volt	4-20 mA	BLUE
DVT-1500-V01	1500 Volt	0-1 Vdc	BLACK
DVT-1500-V05	1500 Volt	0-5 Vdc	WHITE



CE RoHS ISO9001

\*\*Magnelab reserves the right to implement modifications without prior notice