

MAGNELAB

# DC Voltage Transducer DVT-100 and DVT 1000

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.

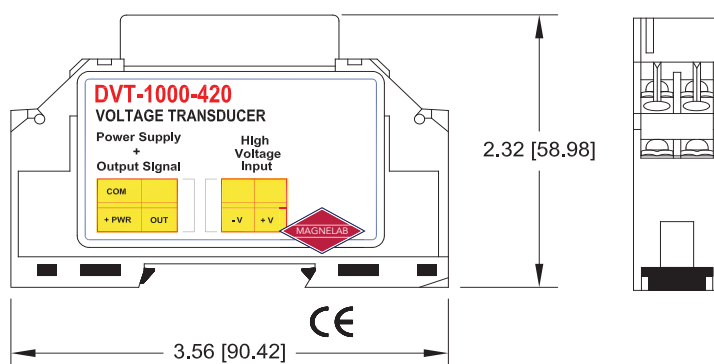
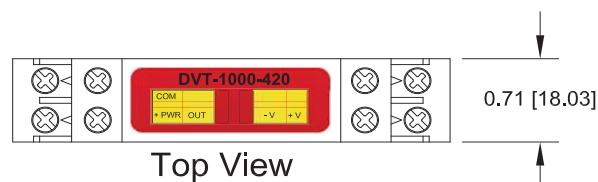
## SPECIFICATIONS

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Primary Voltage           | DVT-100: 1-100 Vdc<br>DVT-1000: 10-1000 Vdc        |
| Output                    | 4-20 mA, 0-1 Vdc, 0-5 Vdc (See chart below)        |
| Accuracy                  | ±1.0 % over range                                  |
| Linearity                 | 0.5% over range                                    |
| Temperatures              | Operating: -30°C to 70°C<br>Storage: -40°C to 70°C |
| Operating Humidity Rating | 90%                                                |
| Response time             | 10.0 mSec                                          |
| DIN Rail                  | EN 50 022 or wall mounting                         |
| Terminals                 | Screw Type                                         |
| Warranty                  | 7 Years                                            |
| Safety:                   | Conforms to UL508C<br>Certified to CCA C22.2       |
| Working Range             | 5% - 105%                                          |
| Overload                  | 150% continuous                                    |
| Isolation                 | 4.5 KV, 1 minute                                   |
| Supply voltage            | 15-48 Vdc                                          |
| Weight                    | 0.11 lbs (0.05 kg)                                 |

| 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        |
| DTV-1000-V01      | 1000 Volt | 0-1 Vdc | GREEN      |
| DVT-1000-V05      | 1000 Volt | 0-5 Vdc | ORANGE     |



- Solar-string monitoring
- Power sensing
- Over/under voltage
- Battery and energy storage
- Charge controller monitoring



Dimensions are in inches and Millimeters

## MORE OPTIONS

Please inquire about our ruggedized DVT for extreme environments with these improvements:

- Improved for the environments including temperature, humidity and EMI.
- Immune to conducted pulses and spikes up to 5 KV on both the supply voltage and input.
- Greater output accuracy (+/- 0.5%).
- Unique serial numbers for traceability.



CE RoHS2 ISO9001

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

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