Model 4DSMV

Medium Voltage (4160V)
Split AC Current Transducer
2.5, 5 or 10VDC Output

- ***Input Range: 100A to 10,000A***
- ***VDC Output Proportional to AC Input***
- ***Accuracy Class 1.0***
- ***No Power Supply Required***
- ***0.5% Ripple Standard***
- ***Window Sizes (INCHES):***
  - ***1.5, 2.0, 2.5, 3.0, 4.0***
  - ***Custom Sizes available***

The Model 4DSMV is a medium voltage current transducer, rated to 4,160 VAC and provides a DC voltage output. This model will convert only sinewave current for true RMS conversion, not non-sinewave waveforms. The output voltage is calibrated to 2.5, 5 or 10VDC using an internal load resistor with filter capacitors (the same as an AC to DC power supply). The output will change if the metering input impedance changes the internal calibration load resistance. Therefore the metering instrument must have a high input impedance. Contact Sentran Corporation if you need the transducer calibrated to your instrumentation. There is a tradeoff between ripple and response time.

Specifications:

Input Current**.....**100 to 10,000Amps , sine wave, single phase 50/60Hz
Voltage Rating**.....**4160VAC, with cover installed
Output**.....**2.5, 5, or 10VDC at Full Range input. Meant for AC sine waves only
Ratio and Linearity Accuracy**.....**+/- 1% from 10% to 100%
+/- 3% at 5% of Full Scale
+/- 5% at 2% of Full Scale
Response Time**.....**Approximately 50 milliseconds from 10% to 90% of amplitude for CT's over 100A
Ripple**.....**0.5% is standard, lower at the sacrifice of response time (filtering increases response time)
Bandwidth**.....**50Hz or 60Hz
Interface Resistance**.....**Depends on current rating – contact Sentran Corporation for details
Temperature Range**.....**-20°C to 55°C
Temperature Coefficient **.....**Less than 0.05% from -20°C to 55°C
Construction**.....**Polycarbonate, ultrasonic welded and encapsulated plastic
Lead Wires**.....**10kV or higher rated lead wire, Black/Red

Custom made units: Since we offer many different custom sizes, please request a drawing for the particular size you order.

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