

# Model 4DS

## Split AC Current Transducer 2.5, 5 or 10VDC Output

- Input Range: 10A to 1500A
- VDC Output Proportional to AC Input
- Accuracy: +/- 1% at Full Scale
- Windows from 0.5" to 4"
- No Power Supply Required
- 0.5% Ripple (Standard)
- Meets UL506 Requirements



The Model 4DS is an AC current to DC voltage transducer that rectifies a 60Hz sine wave current to obtain a DC output. Since only internal passive rectifiers are used (no internal power supply), the conversion to DC is true RMS AC sine waves only. A true RMS version for non-sinewaves is available. The output voltage is set to 2.5, 5 or 10VDC at full scale input and is meant to be connected to high impedance. There is a tradeoff between ripple and response time.

### Specifications:

<b>Input Current</b> .....	1500AC current max, sine wave, single phase 50/60/400Hz
<b>Voltage Rating</b> .....	600VAC, tested with 2.5kVDC for 60 seconds
<b>Output Voltage</b> .....	2.5, 5 or 10VDC at Full Range. True RMS Conversion for AC sine waves only
<b>Ratio and Linearity Accuracy</b> .....	+/- 1% from 10% to 100% +/- 3% at 5% of Full Scale +/- 5% at 2% of Full Scale
<b>Response Time</b> .....	Approximately 500 milliseconds from 10% to 90% of amplitude for CT $\phi$ s over 100A
<b>Output Resistance</b> .....	100 to 3,500 $\Omega$ , depending on current rating
<b>Interface Resistance</b> .....	100k $\Omega$ minimum. Other instrument impedances can be interfaced on special orders
<b>Ambient Temperature</b> .....	Less than 0.05% from -20°C to 55°C
<b>Lead Wires</b> .....	.8ft. twisted black and red, 22AWG per UL1015. STP available upon request

Available in Many Sizes including Busbar

Issue: March 17, 2017