Model 4DSP

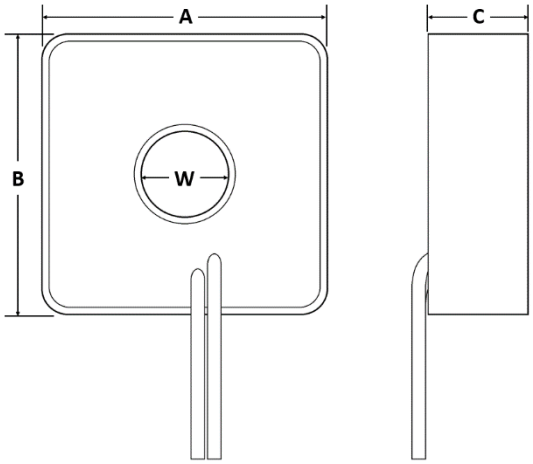
Solid AC Current Transducer
2.5, 5 or 10VDC Output

- *Input Range: 25A to 300A*
- *VDC Output Proportional to AC Input*
- *Accuracy: +/- 1% at Full Scale*
- *Windows from 0.5" to 1.5"*
- *No Power Supply Required*
- *0.5% Ripple (Standard)*
- *Potted Construction*
- *Meets UL506 Requirements*

The Model 4DSP is a solid-core, 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:

Input Current.....300AC current max, sine wave, single phase 50/60/400Hz
Voltage Rating.....600VAC, tested with 2.5kVDC for 60 seconds
Output Voltage.....2.5, 5 or 10VDC at Full Range. True RMS Conversion 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 500 milliseconds from 10% to 90% of amplitude for CTs over 100A
Output Resistance.....100 to 3,500Ω, depending on current rating
Interface Resistance.....100kΩ minimum. Other instrument impedances can be interfaced on special orders
Ambient Temperature.....Less than 0.05% from -20°C to 55°C
Lead Wires.....8ft. twisted black and red, 22AWG per UL1015. STP available upon request



PART NUMBER 4DSP-XX-YY-W	W	A	B	C
4DSP-XX-YY-0.5	0.5	2.56	2.56	0.9
4DSP-XX-YY-0.75	0.75	2.56	2.56	0.89
4DSP-XX-YY-1.0	1	3.1	3.1	1.07
4DSP-XX-YY-1.25	1.25	TBD	TBD	TBD
4DSP-XX-YY-1.5	1.5	TBD	TBD	TBD

MORE SIZES AVAILABLE SOON

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