Product Specification SPECIFICATION FOR 10VDC OUTPUT AC CURRENT SENSOR

Model number

DR20-30A-10VDC-60HZ (Fast Response)

Absolute stress above which the unit may be damaged.		Min.		Max.	unit
	Ambient temperature	-40		80	°C
	Measured current			400	A-rms max
	Shock (any axis)			2500	g
Da	nge over which operation is guaranteed.	Min.		Max.	unit
ixa	Ambient temperature	-5		70	°C
	Frequency	-5 59		61	Hz
	Total harmonic distortion of sensed current (Note 2)	33		3.0	percent
	Vibration (1Hz-10kHz)			200	g
	718.1817 (11.12.1814.12)				9
Operating parameters.		Min.	Тур.	Max.	unit
	Input current	0.0	30.0	36.0	A-rms
	Output voltage	0	10.0	12.0	V dc
	Output impedance (Note 1)		17.5		k
	Load impedance, undamaged 0 to load (Note 1)	0		Infinity	
	Sensor internal resistance		16.3	•	k
	Thermal coefficient, low to room temp, potting B		-0.016		%/°C
	Thermal coefficient, room to high temp, potting B		0.036		%/°C
	Rise time constant		25		msec
	Fall time constant		35		msec
Physical		Min.	Тур.	Max.	unit
	Current wire hole size		0.8	0.8	inch
	Depth		0.8		inch
	Height		2.2		inch
	Width		2.0		inch
	Weight		115		grams
	Polarized output wire leads		12		inch
	Flammability, 94 V-O, self extinguishing				

Note 1 Sensors are calibrated with 500 k ±2% //300 pf. instrumentation capacity.

- **Note 2** Sensor response nearly identical for all waveforms; sine, square, or triangle (except triacs).
- Note 3 The sensor output impedance is approx. 36k // 0.47uf.
- **Note 4** Maximum output current obtained by dividing output volts by sensor internal resistance.
- Note 5 Sensors are powered by current being measured.

Smith Research & Technology, Inc.



3109 N. Cascade Ave., Bldg. #201 Colorado Springs, CO 80907-5190 719 634 2259, FAX 719 634 2601

Inductive AC voltage and current sensors