



SD1000 OPTIONS



- OPT 06 Printer Cable (2 metre)
- OPT 07 Data Capture/External Trigger Input
- OPT 10 IEEE-488 Cable (2 metre)
- OPT 11 UKAS Certificate
- OPT 12 Rack Mounting Kit
- OPT 14 Current Transducer Characterisation
- OPT 15 Spot Frequency Calibration
- OPT 18 500V rms Input Capability
- OPT 19 High Accuracy Current Shunt 20A
- OPT 20 High Accuracy Current Shunt 40A

Phase	Range		$\pm 180.00^\circ$ or 0.00° to $+360.0^\circ$
	Accuracy ($23^\circ\text{C} \pm 5^\circ\text{C}$; 1-year cal interval)	0.1Hz to 99Hz	$\pm 0.02^\circ \pm 1$ digit
		100Hz to 999Hz	$\pm 0.03^\circ \pm 0.005^\circ/\text{kHz} \pm 1$ digit
		1kHz to 99kHz	$\pm 0.04^\circ \pm 0.005^\circ/\text{kHz} \pm 1$ digit
		100kHz to 700kHz	$\pm 0.25^\circ \pm 0.003^\circ/\text{kHz} \pm 1$ digit
	Resolution		0.01° (0.001° via interfaces)
Repeatability		$\pm 0.01^\circ$ ($\pm 0.003^\circ$ via interfaces)	
Frequency	Range		0.1Hz to 700kHz
	Accuracy ($23^\circ\text{C} \pm 5^\circ\text{C}$)		$\pm 0.1\%$
Inputs	Range		1mV rms to 350V rms (500V pk)
	Bandwidth		0.01Hz to 700kHz
	Isolation (inputs to ground)		2000V
	Impedance		2 M Ω and 10pF
Environment	Temperature	Operating	0°C to $+50^\circ\text{C}$
		Storage	-40°C to $+70^\circ\text{C}$
	Humidity (non-condensing)		10% to 90% RH
Dielectric Strength	Inputs to case or AC line input		2kV AC 50/60Hz 1 minute
	Power supply to case		2kV AC 50/60Hz 1 minute
Power Requirements	Line input voltage		110V or 220V AC $\pm 10\%$
	Line input frequency		50/60Hz
	Line input fuse		315mA
	Line input conformance		IEC348 Class I; IEC1000-3-2; IEC801 Parts 1 to 4; EN55011
	Power consumption		25VA
Mechanical	Weight		5kg (6kg in delivery packaging)
	Dimensions (W x H x D)		215mm x 144mm x 390mm

Warranty

This product is warranted against defects in materials and workmanship for a one-year period. AV Power reserves the right to decide if the repair is under warranty. This warranty will not apply to defects from misuse or unauthorised modifications. AV Power cannot accept legal liabilities for any inaccuracies in this documentation. AV Power reserves the right to alter this specification without notice.

Safety

This product is constructed and tested in accordance with IEC348 Class I. Remove the AC line plug and input signals before removing the outer cover. Connect AC line plug before connecting to measurement inputs.

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