

Accuracy specifications are valid for a period of two years after calibration in normal use. Consult operating manual for full specifications.

Voltage Input Capability and Characteristics

Specification	V Channel Type	K Channel Type	B Channel Type	U Channel Type
Voltage Input Burden	1.201MΩ ± 3kΩ	2MΩ ± 5kΩ	801.5kΩ ± 2kΩ	1.201MΩ ± 3kΩ
Maximum Measurable Voltage (pk, dc or rms)	2kV	3.3kV	1350V	2kV
Max. Specified Continuous Voltage (within maximum measurable peak)	PA910	1000V _{RMS}	Not Available	Not Available
	PA920	Not Available	1625V _{RMS}	1250V _{RMS}
No Damage Voltage	<1ms	<3kV _{RMS} and V _{PK}	<3kV _{RMS} and V _{PK}	<3kV _{RMS} and V _{PK}
	<100ms	<2kV _{RMS}	<2.5kV _{RMS}	<2kV _{RMS}
	<5s	<1.5kV _{RMS}	<2kV _{RMS}	<1.5kV _{RMS}
Mains Safety Rating	1000V/CAT II, 600V/CAT III, 300V/CAT IV		600V/CAT II or III 300V/CAT IV	1000V/CAT II, 600V/CAT III, 300V/CAT IV
Transient Isolation Voltage (to ground)	>4.5kVpk			
Voltage Accuracy (DC, 20Hz-1kHz) ± Self-Heating Adder	PA910	±0.03%±0.02% per kV ²	Not Available	Not Available
	PA920	Not Available	±0.03%±0.006% per kV ²	±0.03%±0.015% per kV ²
DC Voltage Floor	±0.9mV	±1.35mV	±1.8mV	±0.9mV
AC Voltage Floor (10kHz BW)	450μV + $\frac{100\mu V}{V_{rdg}}$	750μV + $\frac{200\mu V}{V_{rdg}}$	300μV + $\frac{75\mu V}{V_{rdg}}$	450μV + $\frac{100\mu V}{V_{rdg}}$
3dB Voltage Bandwidth (typical)	2MHz	850kHz	4.5MHz	2MHz
Maximum Harmonic Frequency	<590kHz and <500 harmonics			
Effective Sampling	24bits @ 384MSPS			
Physical Sampling	6bits+18bits @ >1.2MSPS combined			

Current Input Capability and Characteristics

Specification	T Current Option		X Current Option	
	HI Range	LO Range	HI Range	LO Range
Current Input Burden	8mΩ nominal	505mΩ nominal	153kΩ ± 0.5kΩ	100.5kΩ ± 0.3kΩ
Maximum Measurable Current (pk, dc or rms)	150A	1.5A	15V	0.6V
Specified Continuous Current (within measurable peak)	PA910	30A _{RMS}	12V _{RMS}	0.5V _{RMS}
	PA920	32A _{RMS}		
No Damage Current	<8ms	<200A _{RMS} and <300A _{PK}	<1kV _{RMS} and V _{PK} (fuse protected above 18V)	
	<40ms	<75A _{RMS}		
	<1s	<50A _{RMS}		
Mains Safety Rating (Isolation)	1000V/CAT II, 600V/CAT III, 300V/CAT IV			
Transient Isolation Voltage (to ground)	>4.5kVpk			
Current Accuracy (DC, 20Hz-1kHz) ± Self-Heating Adder	UT or UX	±0.018%±0.000025% per A ²	±0.018%	
	Other	±0.03%±0.00005% per A ²	±0.03%	
DC Current Floor	BT or BX	±438μA	±126μV	±6.15μV
	Other	±188μA	±1.25μA	±5.15μV
AC Current Floor (10kHz BW)	38μA + $\frac{1.5\mu A}{A_{rdg}}$	0.25μA + $\frac{0.1nA}{A_{rdg}}$	6μV + $\frac{35nV}{V_{rdg}}$	0.15μV + $\frac{0.02nV}{V_{rdg}}$
3dB Current Bandwidth (typical)	BT or BX	5MHz		2.5MHz
	Other	2MHz		
Maximum Harmonic Frequency	<590kHz and <500 harmonics			
Effective Sampling	24bits @ 384MSPS			
Physical Sampling	6bits+18bits @ >1.2MSPS combined			

Power (W) Input Capability and Characteristics

Specification	V Channel Type	K Channel Type	B Channel Type	U Channel Type
Power Accuracy (DC, 20Hz-1kHz)	PA910	±0.045%	Not Available	Not Available
	PA920	Not Available	±0.045%	±0.024%
Power Floor Adder	±0.000025% * ((maximum measurable V [*] A _{rdg}) + (maximum measurable A [*] V _{rdg})).			
Self-Heating Adder	± (V and A self-heating)			
DC Power Floor (Apply to DC Only)	(V _{rdg} *DC current floor) ± (A _{rdg} *DC voltage floor) ± (DC voltage floor*DC current floor)			
Phase Floor	±0.005° per kHz		±0.003° per kHz	±0.005° per kHz

Note: Specifications subject to change.

Dimensional

Nominal Dimensions 137mmH x 248mmW x 284mmD (5.4" x 9.75" x 11.2") with feet not extended

Nominal Weight 3.2kg (7lb) net, 5kg (11lb) shipping

Environmental

Storage Environment -20 to 75C (-4 to 167F) (non-condensing)

Operating Environment 0 to 40C (32 to 104F), <85% RH (non-condensing), Pollution Degree 2

Operating Altitude 0 to 2000m (6560ft) ASL

Power Supply

Line Power Installation Category II; 85-264Vrms, 45 to 65Hz, 40VA max. Internally fused with a non-user serviceable fuse

Interfaces

LAN (Ethernet), Serial (RS232), USB (Client) and USB (Host – Front Panel) for mass data storage

Display

7" 800x480px 18bpp color LCD with resistive touch panel.