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2.10 Harmonic Analysis (HARM)

RMS Current	Standard	20mA to 20A rms in 4 ranges 0.2, 1, 5 and 20A rms
	Option 001	50mA to 20A rms in 4 ranges 0.5, 2.5, 12.5 and 20A rms
RMS Voltage		2 to 700V rms (autoranging) 4 ranges: 8, 35, 140 and 700 rms
Frequency Range		DC, 5Hz to 20kHz
Display		4.5 digits
Accuracy @ 23 ± 5°C	Fundamental:	±0.50% of reading ± 0.10% of range ±0.20%/kHz
Triangular Wave	Harmonics:	(± 0.25 ± 0.01/kHz)% of fundamental

2.11 Input Terminal

4mm safety socket. Max 1000V to ground

2.12 Operating Temperature & Humidity

Operating temperature	0 to 50°C
Humidity	10-90%RH non-condensing
Storage temperature	- 40 °C to + 70 °C

2.13 Overcurrent Protection

Fuse HRC 1¼" (32mm) 20AT

2.14 Dielectric Strength

Input - Case	4kV AC 50/60 Hz 1 minute
Input - Power Supply	
Power Supply - Case	

2.15 Power Supply

AC Input Voltage	110V ±20% (110V position) 220V ±20% (220V position)
Frequency	48 to 65 Hz
Protection	Fuse 20mm 315mAT
Consumption	15W, 20VA max

2.16 Physical Data

Weight	2.6Kg
Height	102mm
Width	250mm
Depth	243mm

2. SPECIFICATION

2.1 RMS Voltage (Vrms)

Range	2V to 700Vrms (autoranging in 4 ranges: 8V,35V,140V and 700Vrms)	
Display	4.5 digits	
Frequency Range	DC and 5Hz to 20kHz	
Crest Factor	Up to 19.9 (limit 1000V Pk)	
Accuracy Sinewave @ $23\pm 5^{\circ}\text{C}$	$\pm 0.20\%$ of reading $\pm 0.10\%$ of range $\pm 0.02\%/kHz$	
Input Impedance	8M Ω	
Peak Input Voltage	Continuous	1000V across input terminals
	< 1 second	2500V across input terminals

2.2 RMS Current (Arms)

Range	Standard	20mA to 20A rms (autoranging) in 4 ranges: 0.2A, 1A, 5A and 20Arms
	Option 001	50mA to 20A rms (autoranging) in 4 ranges: 0.5A, 2.5A, 12.5A, 20A rms
Display	4.5 digits	
Frequency Range	DC and 5Hz to 20kHz	
Crest Factor	Up to 19.9 (limit 40A Pk) (limit 110A Pk on option 001)	
Accuracy Sinewave @ $23\pm 5^{\circ}\text{C}$	$\pm 0.20\%$ of reading $\pm 0.10\%$ of range $\pm 0.10\%/kHz$	
Input Resistance	0.05 Ω max inc. fuse circuit	

2.3 Power (W)

Range	Standard	40mW to 14kW (autoranging) in 16 ranges corresponding to V and A
	Option 001	100mW to 14kW
Display	4.5 digits with polarity, according to direction of power flow	
Frequency range	DC and 5Hz to 20kHz	
Accuracy Sinewave @ $23\pm 5^{\circ}\text{C}$	$\pm 0.40\%$ of reading $\pm (0.10\div\text{PF})\%$ of range $\pm (0.25\div\text{PF})\%/kHz$	

2.4 Apparent Power (VA)

Range	Standard	40mVA to 14kVA (autoranging) in 16 ranges corresponding to V and A
	Option 001	100mVA to 14kVA
Display	4.5 digits	
Frequency Range	DC and 5Hz to 20kHz	
Accuracy Sinewave @ $23\pm 5^{\circ}\text{C}$	$\pm 0.40\%$ of reading $\pm 0.10\%$ of range $\pm 0.25\%/kHz$	

2.5 Power Factor (PF)

Range	0.000 ±1.000
Display	4.5 digits (+ = leading PF) (- = lagging PF)
Accuracy Sinewave @ 23±5°C	±0.002 ±0.0025/kHz

2.6 Voltage Crest Factor (Vcf)

Range	1.00 to 19.9
Display	3 digits
Accuracy Sinewave @ 23±5°C	±0.05

2.7 Current Crest Factor (Acf)

Range	1.00 to 19.9
Display	3 digits
Accuracy Sinewave @ 23±5°C	±0.05

2.8 Instantaneous Peak Current (Ainst)

Range	Standard	0.1A to 44A Pk (autoranging in 3 ranges 1.5, 7.5, 44APk)
	Option 001	0.2A to 110A Pk (autoranging in 3 ranges 3.8, 19, 110A Pk)
Display		3 digits with polarity
Accuracy Sinewave @ 23±5°C		±2.0% of range
Aperture Time		100µs

2.9 AC Supply Frequency (FREQ)

Range	5Hz to 20kHz
Display	4.5 digits
Accuracy Sinewave @ 23±5°C	±0.2% of reading