

# SPECIFICATIONS

calibrated at  $23^\circ \pm 3^\circ\text{C}$ .

## AS AN AUTORANGING DC VOLTMETRE

RANGE	MAXIMUM READING	ACCURACY (% of rdg + % of rng)
0.1V	.1999	0.1% 0.1%
1V	1.999	0.1% 0.1%
10V	19.99	0.1% 0.1%
100V	199.9	0.1% 0.1%
1000V	1000.	0.1% 0.1%

**TEMPERATURE COEFFICIENT:**  $\pm (0.02\% \text{ of reading} + 0.01\% \text{ of range}) / ^\circ\text{C}$ .

**INPUT RESISTANCE:** 10 megohms.

**NMRR:** Greater than 75 dB over one digit 50 Hz to 20kHz, up to 300V p-p, with at least 1 mV dc applied.

**CMRR (1kΩ unbalance):** Greater than 140 dB at dc, 120 dB, 20 Hz to 20kHz (Lo driven).

## AS AN AUTORANGING AC VOLTMETRE

RANGE	MAXIMUM READING	ACCURACY (% of rdg + % of rng)	FREQUENCY RANGE
0.1V	.1999	0.5% 0.3%	20Hz - 5kHz
1V	1.999	0.5% 0.3%	20Hz - 10kHz
10V	19.99	0.5% 0.3%	20Hz - 10kHz
100V	199.9	0.5% 0.3%	20Hz - 10kHz
1000V	500	2% 0.3%	20Hz - 5kHz

**TEMPERATURE COEFFICIENT:**  $\pm (0.04\% \text{ of reading} + 0.01\% \text{ of range}) / ^\circ\text{C}$ .

**INPUT IMPEDANCE:** 9 megohms shunted by less than 80 picofarads.

**CMRR (1kΩ unbalance):** Greater than 100 dB dc to 65 Hz, 90 dB to 20kHz (Lo driven).

## AS AN AUTORANGING OHMMETER

RANGE	MAXIMUM READING	VOLTAGE ACROSS HI — mode — LO		CURRENT IN HI — mode — LO	
		ACCURACY (% of rdg + % of rng)	@ 1100 digits	UNKNOWN	HI — mode — LO
0.1kΩ	.1999	0.2% 0.2%	-	0.1V	-
1kΩ	1.999	0.2% 0.1%	0.2% 0.2%	1V 0.1V	1mA 100μA
10kΩ	19.99	0.2% 0.1%	0.2% 0.2%	1V 0.1V	100μA 10μA
100kΩ	199.9	0.2% 0.1%	0.2% 0.2%	1V 0.1V	1μA 1μA
1MΩ	1999	0.2% 0.1%	0.2% 0.2%	1V 0.1V	1μA 0.1μA
10MΩ	19.99	0.2% 0.1%	-	1V	0.1μA -

\*Batts maximum in series with 9MΩ into an open circuit.

**TEMPERATURE COEFFICIENT:**  $\pm (0.04\% \text{ of reading} + 0.01\% \text{ of range}) / ^\circ\text{C}$ .

## AS AN AC AND DC AMMETER

RANGE	MAXIMUM READING	ACCURACY DC — mode — AC*		SHUNT RESISTANCE	FUSE PROTECTION
		DC	% of rdg + % of rng		
0.1mA	.1999	0.3% 0.1%	1% 0.3%	1.2kΩ	10mA
1mA	1.999	0.3% 0.1%	1% 0.3%	1.2kΩ	10mA
0.1 A	.1999	0.3% 0.1%	1% 0.3%	1.1 Ω	2 A
1 A	1.000	0.3% 0.1%	1% 0.3%	1.1 Ω	2 A

\*30 Hz to 5 kHz.

## TEMPERATURE COEFFICIENT:

DC  $\pm (0.03\% \text{ of reading} + 0.01\% \text{ of range}) / ^\circ\text{C}$ .

AC  $\pm (0.05\% \text{ of reading} + 0.01\% \text{ of range}) / ^\circ\text{C}$ .

## GENERAL

**ZERO STABILITY:**  $\pm 0.05\% \text{ of range} / ^\circ\text{C}$  (adjustable to zero with front panel control).

**READING TIME:** 3 seconds to within 0.1% of final reading including range changing.

**DISPLAY:** 3½ digits, appropriate decimal position, function and polarity indication. Upranges at 2000, downranges at 0189; five readings per second.

**ISOLATION:** Input LO to power line ground, greater than 1000 megohms shunted by less than 300 picofarads. Maximum safe input between LO and power line ground, 1200 volts peak.

**POLARITY:** Automatic.

**RANGING:** Automatic on each span.

**OVERLOAD INDICATION:** Display blinks when beyond specified maximum except on current ranges.

**MAXIMUM ALLOWABLE INPUT:** Electronically protected to  $\pm 1200$  volts (dc plus peak ac) on voltage ranges, 250V rms sine wave or dc on ohms. Fuse protected on current ranges.

## ENVIRONMENT:

Operating:  $0^\circ\text{C}$  to  $50^\circ\text{C}$ .

Storage:  $-25^\circ\text{C}$  to  $1-65^\circ\text{C}$ .

**POWER:** 90-110, 105-125, 195-235 or 210-250 volts (switch selected), 50-60 Hz; 6 watts. Optional rechargeable 6-hour battery pack.

**CONNECTORS:** Binding Posts.

**DIMENSIONS, WEIGHT:** 3½ in. high x 9½ in. wide x 10¾ in. deep (85 x 235 x 275 mm). Net weight, exclusive of batteries, 3½ pounds (1.6 kg).