

# Specifications

## DC VOLTAGE

RANGE	RESOLUTION	ACCURACY (1 YEAR) 18° to 28°C
200mV	100µV	±(0.8% of rdg + 1d)
2 V	1mV	
20 V	10mV	
200 V	100mV	
1000 V	1 V	

MAXIMUM ALLOWABLE INPUT: 1000V DC or peak AC non-switched, 750V peak switched  
 INPUT RESISTANCE: 10MΩ  
 NORMAL MODE REJECTION RATIO: Greater than 46dB at 50Hz, 60Hz  
 COMMON MODE REJECTION RATIO: Greater than 100dB at DC, 50Hz and 60Hz (1kΩ unbalance)

## DC CURRENT

RANGE	RESOLUTION	ACCURACY (1 YR) 18° to 28°C	MAXIMUM FULL SCALE VOLTAGE BURDEN
2mA	1µA	±(1.2% rdg + 1d)	0.25V
20mA	10µA	±(1.2% rdg + 1d)	0.25V
200mA	100µA	±(1.2% rdg + 1d)	0.25V
2000mA	1mA	±(2.2% rdg + 1d)	0.7 V
10 A	10mA	±(2.2% rdg + 1d)	0.3 V

OVERLOAD PROTECTION: mA input: 2A fuse (250V), externally accessible; 10A input: 20A for 15 sec unfused

## AC VOLTAGE

RANGE	RESOLUTION	ACCURACY (1 YR) 18° to 28°C	FREQUENCY RANGE
200mV	100µV	±(1.5% of rdg + 5d)	45Hz—500Hz
2 V	1mV		45Hz—500Hz
20 V	10mV		45Hz—500Hz
200 V	100mV		45Hz—120Hz
750 V	1 V		45Hz—120Hz

MAXIMUM ALLOWABLE INPUT: 1000V peak non-switched, 750V peak switched, continuous except 200mV range: 15 sec max above 300V  
 INPUT IMPEDANCE: 10MΩ shunted by less than 100pF  
 RESPONSE: Average responding, calibrated in rms of a sine wave

## AC CURRENT

RANGE	RESOLUTION	ACCURACY (1 YR) 18° to 28°C (45Hz—500Hz)	MAXIMUM FULL SCALE VOLTAGE BURDEN
2mA	1µA	±(2.5% rdg + 5d)	0.25V rms
20mA	10µA	±(2.5% rdg + 5d)	0.25V rms
200mA	100µA	±(2.5% rdg + 5d)	0.25V rms
2000mA	1mA	±(3.5% rdg + 5d)	0.7 V rms
10 A	10mA	±(3.5% rdg + 5d)	0.3 V rms

OVERLOAD PROTECTION: mA input: 2A fuse (250V), externally accessible; 10A input: 20A for 15 sec unfused

## RESISTANCE

RANGE	RESOLUTION	ACCURACY (1 YR) 18° to 28°C	FULL SCALE VOLTAGE
200 Ω	100mΩ	±(0.8% rdg + 4d)	< 0.5V
2kΩ	1 Ω	±(0.8% rdg + 1d)	< 0.5V
20kΩ	10 Ω	±(0.8% rdg + 1d)	> 0.7V
200kΩ	100 Ω	±(0.8% rdg + 1d)	> 0.7V
20MΩ	10kΩ	±(2.5% rdg + 1d)	> 0.7V

MAXIMUM OPEN CIRCUIT VOLTAGE: 1.5V  
 MAXIMUM ALLOWABLE INPUT: 300V DC or rms

## GENERAL

DISPLAY: 0.6" LCD digits with decimal and polarity indications, low battery warning.

OVERRANGE INDICATION: 3 least significant digits blanked.

MAXIMUM COMMON MODE VOLTAGE: 500V peak.

OPERATING ENVIRONMENT: 0° to 50°C

STORAGE ENVIRONMENT: -35°C to 60°C.

TEMPERATURE COEFFICIENT (0° to 18°C and 28° to 50°): Less than 0.1 × applicable accuracy specification per °C.

POWER: 9V alkaline or carbon-zinc battery (NEDA 1604).

BATTERY LIFE: 200 hrs typ with alkaline cells

BATTERY INDICATOR: Display indicates BAT when less than 10% of life remains.

DIMENSIONS, WEIGHT: 178mm long × 78mm wide × 38mm thick (7.1" × 3.1" × 1.5"). Net weight 283gm (10 oz.).

ACCESSORIES SUPPLIED: Battery, test leads and operating instructions.

## ACCESSORIES AVAILABLE:

- Model 1301: Temperature Probe
- Model 1304: Soft Carrying Case & Stand
- Model 1306: Deluxe Carrying Case
- Model 1309: Spare Parts Kit
- Model 1600A: High Voltage Probe
- Model 1651: 50-Ampere Current Shunt
- Model 1681: Clip-On Test Lead Set
- Model 1682A: RF Probe
- Model 1683: Universal Test Lead Kit
- Model 1685: Clamp-On Current Probe
- Model 1691: General Purpose Test Lead Set

Specifications subject to change without notice.