

135A/Digital Multimeter

DC VOLTS

RANGE	RESOLUTION	ACCURACY (1 YEAR)		TEMPERATURE COEFFICIENT	
		±(%rdg + digits) 18°-28°C	±(%rdg + digits) 0°-18°C & 28°-50°C	±(%rdg + digits) 18°-28°C	±(%rdg + digits) 0°-18°C & 28°-50°C
2 V	100 µV	0.05% + 1d	0.012% + 0.3d		
20 V	1mV	0.05% + 1d	0.012% + 0.3d		
200 V	10mV	0.1 % + 1d	0.012% + 0.3d		
1000 V	100mV	0.1 % + 1d	0.012% + 0.3d		

INPUT RESISTANCE: 10MΩ.

NORMAL MODE REJECTION RATIO: Greater than 60dB @ 50Hz, 60Hz.

COMMON MODE REJECTION RATIO (1kΩ unbalance): Greater than 120dB @ DC, 50Hz & 60Hz.

MAXIMUM ALLOWABLE INPUT: 1000V DC or peak AC non-switched, 750V peak switched.

AC VOLTS

RANGE	RESOLUTION	ACCURACY (1 YEAR)	
		±(%rdg + digits) 18°-28°C	±(%rdg + digits) 0°-18°C & 28°-50°C
2 V	100 µV	1% + 1sd, 45Hz-10kHz*	
20 V	1mV	1% + 1sd, 45Hz-300 Hz	
.200 V	10mV	1% + 1sd, 45Hz-120 Hz	
750 V	100mV	1% + 1sd, 45Hz-120 Hz	

* Above 2000 counts.

Extended range accuracy: 5% + 1sd, 10kHz-20kHz

RESPONSE: Average responding, calibrated in rms of a sine wave.

INPUT IMPEDANCE: 10MΩ shunted by less than 100pF.

COMMON MODE REJECTION RATIO (1kΩ unbalance): Greater than 60dB @ DC, 50Hz & 60Hz.

MAXIMUM ALLOWABLE INPUT: 750V rms, 1000V peak continuous on 20V, 200V, 750V ranges, 10V•Hz max; 300V rms continuous, 750V momentary (3 seconds) on 2V range

TEMPERATURE COEFFICIENT: Less than (0.1×applicable accuracy)/°C (0°-28°C & 35°-50°C).

OHMS

RANGE	RESOLUTION	ACCURACY (1 YEAR)		TEMPERATURE COEFFICIENT		TEST CURRENT	MAXIMUM
		±(%rdg + digits) 18°-28°C	±(%rdg + digits) 0°-18°C & 28°-50°C	±(%rdg + digits) 18°-28°C	±(%rdg + digits) 0°-18°C & 28°-50°C		
2 kΩ	100mΩ	0.25% + 5d	0.05% + 0.3d	-	-750 nA		
20 kΩ	1 Ω	0.2 % + 2d	0.01 % + 0.5d	-	-150 nA		
200 kΩ	10 Ω	0.2 % + 2d	0.01 % + 0.5d	-	-1.5 μA		
2000 kΩ	100 Ω	0.2 % + 2d	0.01 % + 0.5d	-	-1.5 mA		
2MΩ	1 kΩ	1 % + 2d	0.1 % + 0.5d	-	-0.15 μA		

MAXIMUM FULL SCALE VOLTAGE: -1V.

MAXIMUM OPEN CIRCUIT VOLTAGE: -2V.

OVERLOAD PROTECTION: 300V DC or rms on all ranges.

DIODE TEST: On-scale reading for forward biased silicon diode.

DC AMPS

RANGE	RESOLUTION	ACCURACY (1 YEAR)		TEMPERATURE COEFFICIENT		MAXIMUM VOLTAGE BURDEN
		±(%rdg + digits) 18°-28°C	±(%rdg + digits) 0°-18°C & 28°-50°C	±(%rdg + digits) 18°-28°C	±(%rdg + digits) 0°-18°C & 28°-50°C	
50mA	10 µA	0.25% + 2d	0.05% + 0.3d	-	-	0.6V
10 A	10mA	1 % + 2d	0.05% + 0.3d	-	-	0.3V

OVERLOAD PROTECTION: 50mA input: 0.75A fuse (250V), externally accessible. 10A input: 20A for 15s unfused.

AC AMPS

RANGE	RESOLUTION	ACCURACY (1 YEAR)		TEMPERATURE COEFFICIENT	
		±(%rdg + digits) 18°-28°C	±(%rdg + digits) 0°-18°C & 28°-50°C	±(%rdg + digits) 18°-28°C	±(%rdg + digits) 0°-18°C & 28°-50°C
50mA	10 µA	1.5% + 5d	0.15% + 0.5d	-	-
10 A	10mA	1.5% + 5d	0.15% + 0.5d	-	-

OVERLOAD PROTECTION: 50mA input: 0.75A fuse (250V), externally accessible. 10A input: 20A for 15s unfused.

GENERAL

DISPLAY: 4½-digit LCD, 0.6" height, polarity and range indication, low battery warning.

CONVERSION PERIOD: 400ms (2.5 readings/second).

OVERRANGE INDICATION: 4 least significant digits blanked.

MAXIMUM COMMON MODE VOLTAGE: 500V DC or peak AC.

OPERATING ENVIRONMENT: 0° to 50°C; less than 80% relative humidity up to 35°C; linearly derate 3% RH/°C, 35° to 50°C.

STORAGE ENVIRONMENT: -35°C to 60°C, less than 90% relative humidity up to 35°C; linearly derate 3% RH/°C, 35°C to 60°C.

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

BATTERY LIFE: 100 hours typical with alkaline battery; 50 hours typical with carbon-zinc battery.

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

DIMENSIONS, WEIGHT: 178mm long × 78mm wide × 42mm thick (7.0" × 3.1" × 1.6"). Net weight 400gm (14.1 oz.).

ACCESSORIES SUPPLIED: Battery, instruction manual, Model 1691 Test Lead Set.

ACCESSORIES AVAILABLE:

Model 1301: Temperature Probe

Model 1304: Soft Carrying Case & Stand

Model 1306: Heavy Duty Carrying Case

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

Prices and specifications subject to change without notice.