

Model 176 Specifications guaranteed for a full year.

DC VOLTS		ACCURACY	TEMPERATURE COEFFICIENT
RANGE	MAXIMUM READING	±(%rdg + digits) 18°-28° C	±(%rdg + digits)/°C 0°-18° C & 28°-50° C
2 V	1.9999	0.05% + 1d	0.012% + 0.3d
20 V	19.999	0.05% + 1d	0.012% + 0.3d
200 V	199.99	0.1% + 1d	0.012% + 0.3d
1000 V	1000.0	0.1% + 1d	0.012% + 0.3d

DC AMPS		ACCURACY	TEMPERATURE COEFFICIENT	MAXIMUM VOLTAGE BURDEN
RANGE	MAXIMUM READING	±(%rdg + digits) 18°-28° C	±(%rdg + digits)/°C 0°-18° C & 28°-50° C	
2 mA	1.999	0.5% + 2d	0.05% + 0.3d	0.25V
20 mA	19.99	0.5% + 2d	0.05% + 0.3d	0.25V
200 mA	199.9	0.5% + 2d	0.05% + 0.3d	0.3 V
2000 mA	1999.	0.5% + 2d	0.05% + 0.3d	0.7 V

INPUT RESISTANCE: 10MΩ.
 NMRR: Greater than 60dB @ 50Hz, 60Hz.
 CMRR (1kΩ unbalance): Greater than 120dB @ DC, 50Hz & 60Hz.
 MAXIMUM ALLOWABLE INPUT: 1000V continuous on 20V, 200V, 1000V ranges; 300V continuous on 2V range; 1000V momentary (3 seconds) on 2V range.

OVERLOAD PROTECTION: 2A fuse (250V), externally accessible.

AC VOLTS (above 2000 counts)		
RANGE	MAXIMUM READING	ACCURACY ±(%rdg + digits) 18°-28° C
2 V	1.9999	1% + 15d, 45Hz-10kHz*
20 V	19.999	1% + 15d, 45Hz-10kHz*
200 V	199.99	1% + 15d, 45Hz- 5kHz
1000 V	1000.0	1% + 15d, 45Hz- 1kHz

AC AMPS		ACCURACY	TEMPERATURE COEFFICIENT	MAXIMUM VOLTAGE BURDEN
RANGE	MAXIMUM READING	±(%rdg + digits) 18°-28° C	±(%rdg + digits)/°C 0°-18° C & 28°-50° C	
2 mA	1.999	1.5% + 5d	0.15% + 0.5d	0.25V
20 mA	19.99	1.5% + 5d	0.15% + 0.5d	0.25V
200 mA	199.9	1.5% + 5d	0.15% + 0.5d	0.3 V
2000 mA	1999.	1.5% + 5d	0.15% + 0.5d	0.7 V

OVERLOAD PROTECTION: 2A fuse (250V), externally accessible.

*5% + 15d, 10kHz-20kHz
 RESPONSE: Average responding, calibrated in rms of a sine wave.
 INPUT IMPEDANCE: 1MΩ shunted by less than 100pF.
 CMRR (1kΩ unbalance): Greater than 60dB (40dB on 1000V range) @ DC, 50Hz & 60Hz.
 MAXIMUM ALLOWABLE INPUT: 1000V rms, 1400V peak continuous on 20V, 200V, 1000V ranges; 300V rms continuous on 2V range, 1000V momentary; 10°V·Hz max.
 TEMPERATURE COEFFICIENT: Less than (0.1 × applicable accuracy)/°C (0°-18° C & 28°-50° C).

GENERAL
 DISPLAY: 0.6" LCD digits with decimal and polarity indications, low battery warning, range and function annunciators.
 CONVERSION PERIOD: 400ms.
 OVERRANGE INDICATION: Flashing leading digit.
 MAXIMUM COMMON MODE VOLTAGE: 1400V.
 OPERATING ENVIRONMENT: 0°-50° C; less than 80% relative humidity up to 35° C, less than 70% relative humidity from 35°-50° C.
 STORAGE ENVIRONMENT: -35° C to 60° C.

OHMS		ACCURACY	TEMPERATURE COEFFICIENT	MAX TEST CURRENT
RANGE	MAXIMUM READING	±(%rdg + digits) 18°-28° C	±(%rdg + digits)/°C 0°-18° C & 28°-50° C	
2 kΩ	1.9999	0.25% + 5d	0.05% + 0.3d	2.5mA
20 kΩ	19.999	0.2% + 2d	0.01% + 0.5d	500 μA
200 kΩ	199.99	0.2% + 2d	0.01% + 0.5d	50 μA
2000 kΩ	1999.9	0.2% + 2d	0.01% + 0.5d	5 μA
20MΩ	19.999	0.75% + 2d	0.1% + 0.5d	0.5 μA

POWER: Six 1.5V "C" cells.
 BATTERY LIFE: 1000 hours (typical) with alkaline "C" cells.
 BATTERY INDICATOR: Display indicates "BAT" when less than 10% of life remains.
 DIMENSIONS, WEIGHT: 85mm high × 235mm wide × 275mm deep (3 1/2" × 9 1/4" × 10 3/4"). Net weight 1.7kg (3.6 lb.).
 ACCESSORIES SUPPLIED: Model 1768 Battery Pack with batteries, Model 1691 Test Lead Set, Operator's Manual.
 ACCESSORIES AVAILABLE:
 1010 Rack Mounting Kit
 1017 Rack Mounting Kit
 1600 High Voltage Probe
 1651 50A Current Shunt
 1681 Clip-On Test Lead Set
 1682 RF Probe
 1683 Universal Test Lead Set
 1684 Hard Shell Carrying Case
 1685 Clamp-On Current Probe
 1691 General Purpose Test Lead Set
 1765 Service Manual
 1766 Battery Eliminator
 1768 Battery Pack (for converting 176 to standard 176)
 1769 Spare Parts Kit

MAXIMUM ON-RANGE VOLTAGE: 2V.
 MAXIMUM OPEN CIRCUIT VOLTAGE: 5V.
 OVERLOAD PROTECTION: 300V AC or DC on all ranges.

Prices and specifications subject to change without notice.

LTR	REVISIONS	APP.	DATE	DRN. W.I.	DATE
A	RELEASE		11-20-88	CKD.	DATE 10-21-88
				APP.	DATE 10-21-88



KEITHLEY INSTRUMENTS
 CLEVELAND, OHIO

SPECIFICATIONS

PART NUMBER
SPEC-176