

Specifications

TECHNICAL SPECIFICATIONS

Auto-off: off after 25 minutes to extend battery.

Indicators: Continuity beeper (<100Ω). Low bat.

Overrange: "OL" or "-OL" is displayed.

Operating environment: 32 to 122°F (0 to 50°C) <70%RH

Storage environment (with batteries removed): -4 to 140°F (-20 to 60°C) <80%RH

Altitude: 6561.7 feet (2000m).

Battery life: 150 hours typical.

Battery type: 9V NEDA 1604 type

Stated accuracies: 74°F±8°F (23°C±4°C), 75%RH

Temperature coefficient: 0.1 x (specified accuracy) 1°F/°C (32 to 66°F (0 to 19°C), 82 to 122°F (28 to 50°C)).

DC Voltage

Ranges: 200mV, 2000mV, 20V, 200V, 600V

Resolution: 0.1mV

Accuracy: 0.5%±1

Input impedance: 10MΩ

AC Voltage (50Hz-500Hz)

Ranges: 200mV, 2000mV, 20V, 200V, 600V

Resolution: 0.1mV

Accuracy: 1.2%±4(200mV to 20V ranges), 2%±4(200V and 600V ranges)

Input impedance: 10MΩ

DC Current (through meter)

Ranges: 200μA, 20mA, 200mA

Resolution: 0.1μA

Accuracy: 1.0%±1

Voltage burden: 800mV

AC Current (through meter)

Ranges: 200μA, 20mA, 200mA

Resolution: 0.1μA

Accuracy: 1.5%±4

Voltage burden: 800mV

Frequency (autoranging)

Range: 10Hz to 40KHz

Resolution: 1Hz

Sensitivity: 3.5V rms min

Accuracy: 0.1%± 3

Resistance (ohms)

Ranges: 200Ω, 2kΩ, 200kΩ, 20MΩ

Resolution: 0.1Ω

Accuracy: 1.0%±4 (200Ω to 200kΩ ranges),

2.0%±4 (20MΩ range)

Open circuit voltage: 0.3VDC typical, (3.0VDC on 200Ω)

Diode Test

Accuracy: 1.5%±3
Test current: 1.0mA approx.
Open circuit voltage: 3.0VDC typical

Capacitance (MFD)

Ranges: 200µF, 2kµF, 20kµF
Resolution: 0.1µF
Accuracy: 4%±10
Test frequency: 21Hz
Test voltage: <3.0V

Temperature

Ranges: -30 to 1400°F (-34 to 750°C)
Resolution: 0.1°F/°C
Accuracy: ±1°F; 32 to 120°F (±0.5°C; 0 to 48°C),
±1.0%+1.5°F; -4 to 750°F (±1.0%+1.0°C; -20 to 399°C)
±3.0%+4°F; -30 to -4°F and 750 to 1400°F
(±3.0%+2°C; -34 to -20°C and 399 to 750°C)
Sensor type: K-type thermocouple

Field Calibration (temp offset pot)

The LT17A can be easily calibrated on the job. Use a bucket of ice water to have a known 32°F (0°C) temperature. With the thermocouple in the ice water, adjust the TEMP OFFSET pot on the face of the meter until it reads 32.0 (0.0).

Fuse Replacement: When only certain ranges quit working, check the fuse. Open the case and replace according to the Overload Protection values below. If that doesn't work visit our [Warranty Page](#) to check for other problems.

Overload Protection

VAC/DC:

(200mV range) 600VAC/DC rms for 15 sec

(>200mV range) 600VAC/DC rms

AAC/DC: 0.25A/500V fuse (6.3X32mm)

Capacitance: 0.25A/500V fuse (6.3X32mm) model RFM66

Temperature: 30VAC/DC rms

Frequency: 500VAC/DC rms

Resistance: 500VAC/DC rms

Diode Test: 500VAC/DC rms

Continuity: 500VAC/DC rms