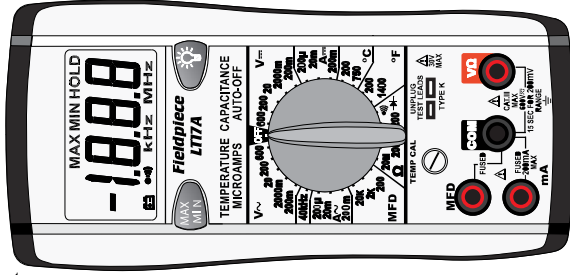


DIGITAL MULTIMETER

Model: LT17A



General description

The LT17A is designed for the HVAC/R technician. The LT17A meter measures current, resistance, voltage, capacitance, frequency, continuity, and temperature. Test leads store within the meter and can connect the LT17A to Fieldpiece accessory heads. The body is made out of durable ABS plastic and comes with a bright blue backlight for poorly lit test areas. Get great accuracy with the k-type thermocouple and easily accessible temp. pot.

User maintenance

Battery Replacement: When the multimeter displays the "E" the battery must be replaced to maintain proper operation. To prevent electrical shock, turn off the meter and disconnect leads before removing the back cover.

Fuse Replacement: When only certain ranges quit working, check the fuse. Open the case and replace according to the Overload Protection chart. All other repairs must be performed by a Fieldpiece service center.

For your safety...

General: Inspect the test leads for damage to the insulation or exposed metal. Replace if suspect. Never ground yourself when taking electrical measurements. Do not touch exposed metal pipes, outlets, fixtures, etc., which might be at ground potential. Keep your body isolated from ground by using dry clothing, rubber shoes, rubber mats, or any approved insulating material. When disconnecting from a circuit, disconnect the "RED" lead first, then the common lead. Work with others. Use one hand for testing. Turn off power to the circuit under test before cutting, unsoldering, or breaking the circuit. Keep your fingers on the plastic and behind the ridge of the probes.

All Voltage Tests: All voltage ranges will withstand up to 600VAC or 600VDC. Do not apply more than 600VDC or 600VAC.

AC Tests: Disconnect the meter from the circuit before turning any inductor off, including motors, transformers, and solenoids. Hi voltage transients can damage the meter beyond repair. Do not use during electrical storms.

Safety: Designed to meet IEC 61010-1 (EN61010-1), CATIII 600V, Class II, pollution deg.2, indoor use and complies with CE, C-Tick certified.

Symbols used:

⚠ Caution, refer to manual.

⏚ Ground

⏚ Double insulation

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) model RFM66
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

Service

Call Fieldpiece Instruments for one-price-fix-all warranty service pricing. Send check or money order for the amount quoted. Send the meter freight prepaid to Fieldpiece Instruments. Send proof of date and location of purchase for in-warranty service. The meter will be repaired or replaced, at the option of Fieldpiece, and returned via least cost transportation.

www.fieldpiece.com

DIGITAL MULTIMETER

Model: LT17A



OPERATOR'S MANUAL

General 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

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).

MAX/MIN

Record the minimum or maximum reading during a measurement. To exit the MIN/MAX function, hold the button for more than 2 seconds.

Backlight

Always be very careful when testing in the dark. You should always have a separate light on the area you are testing. The backlight will shine for 4.5 minutes when the backlight button is pressed.

Limited warranty

This meter is warranted against defects in material or workmanship for one year from date of purchase. Fieldpiece will replace or repair the defective unit, at its option, subject to verification of the defect.

This warranty does not apply to defects resulting from abuse, neglect, accident, unauthorized repair, alteration, or unreasonable use of the instrument.

Any implied warranties arising from the sale of a Fieldpiece product, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the above. Fieldpiece shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim of such damage, expenses, or economic loss.

State laws vary. The above limitations or exclusions may not apply to you.

Fieldpiece
Designed in USA
MADE IN TAIWAN

