

## Classic Style Meters

Familiar form with features needed for HVAC/R.  
All except the SPDM1 work with Fieldpiece accessory heads.  
Optional ADLS2 leads or AHDL1 handle required for LT83A.



LT17A with  
backlight on



LT17A  
backside

New LT series meters come with backlight, tilt stand, probe storage, and magnetic hanger.

### LT17A: Biggest “Bang for the Buck”

#### Features and functions designed for HVAC/R:

- Temperature: K-type thermocouple plugs directly into meter. No adapter to lose.
- MFD for motor start/run capacitors.
- Microamps for flame rectifier diode tests.
- Low ohm ranges for motor windings.
- MIN/MAX function.
- See page 33 to find out what's included.

### LT16A: True RMS Meter

For working with motors and electrical equipment.

- Volts, ohms, amps, continuity.
- MFD for motor start/run capacitors.
- Frequency for variable frequency drives.
- MAX/MIN to record highs and lows.
- Phase rotation indication for 3-phase motor connection.
- See page 33 to find out what's included.

LT16A with backlight on



### LT83A: Good Meter, Great Price

Basic functions at a low price.

- Volts, ohms, amps, continuity.
- Battery checker.
- MAX/MIN to record highs and lows.

LT83A with backlight on



### SPDM1: Pocket DMM with Non-contact Voltage

Pocket sized digital multimeter (DMM) with all the basic functions.

- Convenient lead storage.
- Volts AC/DC, ohms, continuity, and diode check.
- Non-contact voltage.

SPDM1



**DMM Features and Specifications Table**

Function	Range	Accuracy/ Resolution	LT16A	LT17A	LT83A
<b>Ranging</b>			Manual	Manual	Manual
<b>Counts</b>			2000	2000	2000
<b>Backlight</b>			●	●	●
<b>True RMS</b>			●		
<b>VAC</b>	200m	1.5% + 5/0.1	●	●	●
	2000m	1.5% + 5/1.0	●	●	●
	20	1.5% + 5/0.01	●	●	●
	200	2.0% + 5/0.1	●	●	●
	600	2.0% + 5/1.0	●	●	●
<b>VDC</b>	200m	0.5% + 1/0.1	●	●	●
	2000m	0.5% + 1/1.0	●	●	●
	20	0.5% + 1/0.01	●	●	●
	200	0.5% + 1/0.1	●	●	●
<b>AAC</b>	600	0.5% + 1/1.0	●	●	●
	200μ	1.5% + 5/0.1	●	●	●
	2m	1.5% + 5/0.001			●
	20m	1.5% + 5/0.01	●	●	●
	200m	1.5% + 5/0.1	●	●	●
	2	3.0% + 5/0.001	●		
	10	3.5% + 4/0.01			●
	20*	3.0% + 7/0.01	●	●	●
	100*	4.0% + 8/0.01	●	●	●
<b>ADC</b>	400*	5.0% + 10/1	●	●	●
	20μ	1.0% + 1/0.01			
	200μ	1.0% + 1/0.1	●	●	●
	2m	1.0% + 1/0.001			●
	20m	1.0% + 1/0.01	●	●	●
	200m	1.0% + 1/0.1	●	●	●
	2	2.5% + 1/0.001	●		
<b>°F</b>	10	3.0% + 3/0.01			●
	200	1°F/0.1 (32-120°F)		●	
<b>MFD</b>	1400	3.0% + 7/1.0		●	
	20	4.0% + 10/0.01			
	200	4.0% + 10/0.1	●	●	
	2K	4.0% + 10/0.001	●	●	
<b>Ohms</b>	20K	4.0% + 10/0.01	●	●	
	200	1.0% + 4/0.1	●	●	●
	2K	1.0% + 4/0.001	●	●	●
	20K	1.0% + 4/0.01			●
	200K	1.0% + 4/0.1	●	●	●
	2M	1.0% + 4/0.001			●
	20M	3.0% + 4/0.01	●	●	●
	200M	2.0% + 4/0.1			●
<b>Battery Check</b>	2000M	5.0% + 10/1.0	●		
<b>Frequency</b>	1.5V	3.5% + 2/0.01			●
<b>Phase Rotation</b>			●	●	
<b>Continuity</b>			●		
<b>Diode</b>			●	●	●
*With the ACH4			●	●	●

**SPDM1 Features and Specifications Table**

SPDM1	Range	Accuracy / Best Resolution
<b>Counts</b>	2000	
<b>Ranging</b>	Auto	
<b>NCV</b>	●	
<b>VAC</b>	2-600	4.0%+5/.001
<b>VDC</b>	2-600	2.0%+2/.001
<b>Ohms</b>	200-20M	5.0%+5/0.1
<b>Continuity</b>	●	
<b>Diode</b>	●	

## LT17A



Includes meter, the ACH4 400 AAC accessory clamp, ATB1 thermocouple, leads, and mail pouch carrying case (ANC5).

## LT16A



Includes true-RMS meter, the ACH4 400 AAC accessory clamp, leads, ASA2 alligator clips, and carrying case (ANC5).

### Contents of Fieldpacks

Product Number	LT16A	LT17A	LT83A
Meter	LT16A	LT17A	LT83A
400 AAC Amp Clamp (ACH4)	●	●	
Carrying Case	ANC5	ANC5	
Alligator Leads (ASA2)	●		
Yellow Alligator Lead for 3-phase	●		
Leads with Removable Probe Tips	●	●	
Test Lead Material	Vinyl	Vinyl	Vinyl
K-Type Thermocouple (ATB1)		●	

### Connect to Accessory Heads

Connect your digital multimeter to Fieldpiece Accessory Heads by using the AHDL1 Adapter Handle or by using Fieldpiece leads with removable probe tips (included).



LT17A connected to AHDL1 and ACH4

## ACH4: AC Current Clamp

ACH4 on AHDL1 connected to LT17A



ACH4

Measures to 400AAC. New claw shape allows for easy one handed wire isolation.

- Current range: 1A to 400A.
- Accuracy:
  - 1A-20A AC:  $\pm (1.5\% \text{ rdg} + 0.2A)$
  - 20A-100A AC:  $\pm (2.5\% \text{ rdg} + 0.3A)$
  - 100A-400A AC:  $\pm (3.5\% \text{ rdg} + 0.5A)$
- Maximum conductor size: 0.91 inches (23mm).



Remote the ACH4 with most DMMs.

## AVG2: Vacuum Gauge

Displays pressure in microns in steps of 1 micron. Has pump down indication showing progress from atmospheric pressure.

- Range: 50 to 2000 microns of mercury.
- Resolution: 1 micron of mercury.
- Accuracy (@~75°F):  $\pm 10\%$ , 0-1000 microns of mercury.
- Fitting: 1/4" flared brass fitting (male).
- Auto-off can be disabled for data logging.
- Straight-in access to sensor for easy cleaning.
- New "T" for inline vacuum testing.
- LEDs indicate INcreasing, DEcreasing, and STABLE vacuum.



AVG2

# Accessory Head Handles

## EHDL1: Electronic Handle

Converts any Fieldpiece accessory head into a standalone instrument.

- MIN/MAX to record highest and lowest reading.
- Ranges: 200mVAC, 2000mVAC, 200mVDC, 2000mVDC.
- Resolution: 0.1mV.



EHDL1



EHDL1 handle with AAV3 head

Standalone air velocity and temp. gauge.



EHDL1 handle with ARH4 head

Standalone RH%, temp., wet bulb, and dew point.

## AHDL1: Accessory Head Adapter

Connects any Fieldpiece accessory head to any digital multimeter with industry standard jacks.

ACH4 on AHDL1 connected to LT17A




AHDL1

# Replacement Fuses and Batteries

A blown fuse indicates it did its job.  
Replace it immediately.

## Fuses

## Batteries

MODEL (serial#)	RF16 (4)	0.1A/250V (5x20mm)	RFM66 (4)	0.25A/700V (6x32mm)	RFM70 (4)	2A/600V (6.35x25.4mm)	RFM74 (4)	0.5A/700V (6.35 x 32mm)	RFL712 (1)	12A/600V (10x38mm)	RFL83 (4)	10A/600V (6.35x25.4mm)	RFL83A (4)	10A/500V (6.35x32mm)	RFS74 (4)	0.5A/250V (5x20mm)	MODEL	RL736 (6)	RLR44 (2)	RCR2032 (1)
SC76 (<612588)	●																SWT2		●	
SC67	●																SPK1		●	
SC66	●																SPDM1		●	
LT83A (<70003091)					●						●						SNCV1		●	
LT83A (>70003091)					●								●				SIL2		●	
LT83 (<120808)											●			●			SIR2			●
LT83							●			●							SIP2		●	
LT17A		●															PLM2	●		
LT17 (<120149)	●																			
LT17 (>120149)	●				●															
LT16A			●	●																
LT16	●			●																
HS36 (<647936)			●																	
HS35 (<637606)			●																	
HB74 (<903006)									●					●						
HB74					●	●														

## How to tell if you need a fuse

### HB meters, big fuse:

1. Connect V to 10A input.
2. Select microamps range on dial.
3. "OL" means fuse is bad.

### HB meters,

### LT meters, small fuse:

1. Connect COM to MFD.
2. Select MFD range on dial.
3. If numbers count up, fuse is good.

### HS and SC meters:

1. Remove battery cover.
2. Connect V to negative battery terminal.
3. Select microamps range on dial.
4. "OL" means fuse is good.