

**FLUKE®**

**A family of DMMs  
designed by you,  
engineered by Fluke.**

**Fluke 117 for commercial electricians  
Fluke 116 for HVAC/R professionals**



# Fluke 117: Electricians' Multimeter with non-contact Voltage

The Fluke 117 is the meter for demanding settings like commercial buildings, hospitals and schools.

**New DMM functionality designed to make the electrician's job easier than ever before. Check out these new, innovative features.**

## **VoltAlert™ – non-contact voltage detection**

- Sense the presence of ac voltage without carrying a second tool
- Quickly determine proper grounding with visual indicator

## **Auto-V – automatic volts detection**

- Automatically determine AC/DC voltage—eliminating guesswork
- Correctly displays the voltage measurement without extra steps

## **LoZ – Low impedance input**

- Reduces chance of false readings due to ghost voltage with new low impedance design
- Safer troubleshooting in high energy 3-phase distribution panel with IEC 61010 ratings

## **Other major Fluke 117 features:**

- True-RMS for accurate measurement on non-linear loads
- 20A measurements (30 seconds momentary, 10A continuous)
- Resistance, continuity, frequency and capacitance
- Min/Max/Average to record signal fluctuations



## **Save 20 % – buy the complete Electrician's Combo Kit**

- Fluke 117 Multimeter
- Fluke 322 Clamp
- ToolPak Meter hanger
- Soft carrying case
- Test leads



**Go to [www.fluke.eu](http://www.fluke.eu) for more information.**



# Fluke 116 HVAC Multimeter with Temperature and Microamps

The Fluke 116 has the functions you need to quickly troubleshoot problems with HVAC equipment and flame sensors.



**Built-in thermometer gives you versatility** to perform a wide range of HVAC/R tests. Here are just a few examples:

## Measure superheat and subcooling.

- Measure key temperatures and pressures. Use the Fluke 116 with a Fluke velcro pipeclamp (included in kit) and the PV350 (optional) pressure module to determine superheat and subcooling values.
- Detect problems like a clogged filter drier, undercharge, overcharge, faulty metering device or improper airflow, liquid line restriction or insufficient water flow.

## Troubleshoot the defrost control on a heat pump

- Check the temperature of the air coil
- Confirm when the defrost cycle starts and ends

## Take temperature surveys

- Test out compressor heads, oil sumps, evaporator coils and suction lines, plus discharge lines, condenser coils and the liquid line

## Microamps measurement for testing flame sensors

When a furnace flame will not stay lit, use the Fluke 116 microamps measurement to troubleshoot the flame rod circuit.

## LoZ reduces chance of false readings due to ghost voltage.

(See Fluke 117 for more details about the LoZ)

# Test faster and safer with a new Fluke

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| Function/Feature                              | Benefit  | Original 112 | New 117 | Original 116 | New 116 |
|---|--|--------------|---------|--------------|---------|
| VoltAlert – non-contact voltage indicator     | Separate voltage detector not required                     | NO           | YES     | NO           | NO      |
| AutoV – determines AC/DC voltage              | Correctly display voltage measurements without extra steps | NO           | YES     | YES          | YES     |
| LoZ – low impedance input                     | Reduces chance of false readings                           | NO           | YES     | YES          | YES     |
| Frequency                                     | Measure frequency with one tool                            | YES          | YES     | NO           | YES     |
| Basic DC accuracy                             | Precise measurements in a handheld                         | 0.7%         | 0.5%    | 0.9%         | 0.5%    |
| Analog bar graph                              | Better accuracy when monitoring measurement changes        | YES          | YES     | NO           | YES     |
| Compact ergonomic design                      | One-handed operation                                       | NO           | YES     | NO           | YES     |
| Large white LED backlit display/larger digits | Easier to read in dark locations                           | NO           | YES     | NO           | YES     |
| Display hold/Auto (Touch) Hold                | Hold measurements for later use                            | YES          | YES     | NO           | YES     |
| ToolPak/Magnetic hanger compatible            | Position meter for easy viewing                            | YES          | YES     | NO           | YES     |

## Also available:

**Fluke 115 Multimeter**  
A compact true-RMS meter for field service technicians

- Resistance, continuity, frequency, capacitance, and diode test
- Measures 20 A (30 seconds momentary; 10 A continuous)

**Fluke 114 Multimeter**  
A compact true-RMS meter for electrical troubleshooting

- AutoVolt for automatic AC/DC voltage selection
- Resistance and continuity



## Fluke Accessories

Get the most out of every Fluke tool with the right accessories.

### Electricians Accessories

**ToolPak™ Magnetic meter hanging solution.** Hang the 116 or 117 so you can work with both hands free or leave the meter in place to log data while you do other work. For more information visit [www.fluke.com/tpak](http://www.fluke.com/tpak)

### AC220 SureGrip™ Alligator Clips

Designed to improve steadiness in slippery hands. Rubber overmolded surfaces and finger-hugging curves give the user a comfortable, reliable grip. Visit [www.fluke.com/AC220](http://www.fluke.com/AC220)

**C50 Carrying Case.** Protect your meter with this rugged zippered carrying case featuring inside pocket belt loop and inside meter strap. For more information visit [www.fluke.com/accessories](http://www.fluke.com/accessories)

### HVAC Accessories

**80PK-27 SureGrip™ Industrial Surface Temperature Probe.** Type-K thermocouple for surfaces in rugged environments – measurement range: -127 to 600°C. For more information visit [www.fluke.com/80PK-27](http://www.fluke.com/80PK-27)

**80PK-3A Surface Probe.** Type-K thermocouple for flat or curved surfaces such as plates and rollers – measurement range 0 to 260°C. For more information visit [www.fluke.com/80PK-3A](http://www.fluke.com/80PK-3A)

**80PK-8 Pipe Clamp Temperature Probe.** Type-K thermocouple for fast temperature and superheat measurements of pipe surfaces – measurement range -29 to 149°C for pipe diameters from 6.4 to 34.9mm. For more information visit [www.fluke.com/80PK-8](http://www.fluke.com/80PK-8)



Fluke-117/322 ... Electricians Combo Kit

Kit Fluke-117 ..... Electricians Multimeter

Fluke-116/62 ..... HVAC Combo Kit

Fluke-116 ..... HVAC Multimeter

Fluke-115 ..... Multimeter

Fluke-114 ..... Electrical Multimeter

**Fluke.** Keeping your world up and running.

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