

# 25/27 Analog/Digital Multimeters

**Extremely Rugged, Water Resistant,  
O-Ring Sealed for Harsh Environments**



The Fluke 25 and 27 combine accurate digital and analog measurement capability with extreme ruggedness and durability. They have cases twice as thick as any other DMM we build. They are totally sealed, waterproof to 3 feet (one meter) of water for one hour, tough enough to withstand contaminants, chemicals, accidental drops and severe electrical overloads.

Designed to meet military specification of MIL-STD-28800 for Style A, Class 2 instruments, the Fluke 25 and 27 perform under the extremes of heat, cold, humidity, shock, electromagnetic interference, vibration and downright abuse.

- 3200-count digital display for accuracy and resolution
- 31-segment analog bar graph for fast

peaking, nulling zero adjustments and capacitor checking.

- Fast autoranging and manual ranging
- TouchHold® function captures and locks the measurement and automatically updates with the next measurement
- Conductance for high resistance measurement
- Min/Max and Relative modes (Fluke 27)

### Safety Designed

Rugged safety features include extensive overload protection, high energy fuses, fused 10A range, and non-metallic cases and tilt bail. All voltage inputs recover or fail safe under power line surge tests for major feeders. This includes simulated lightning and load switching transient pulses up to 6 kV superimposed on 660V power lines.

## Features



	25	27
Digital Display/Counts	3200	3200
Analog Bar Graph/Segments	31	31
AC & DC Voltage	•	•
Resistance	•	•
Diode Test	•	•
Fast Continuity Beeper	•	•
Auto and Manual Ranging	•	•
Automatic TouchHold®	•	•
Superior EMI Shielding	•	•
Operates from 5°F to 131°F (-15°C to 55°C) and 95% Relative Humidity	•	•
Rugged, O-Ring Sealed Case	•	•
Built-in Tilt-Bail Hanger	•	•
Meets Military Shock, Vibration and Water-Proof Requirements	•	•
Min/Max and Relative Mode		•

## Specifications

Function	Range and Resolution	25/27 Best Accuracy
VDC	320.0 mV, 3.200V, 32.00V, 320.0V, 1000V	±(0.1%+1)
VAC	320.0 mV, 3.200V, 32.00V, 320.0V	±(0.5%+3)
ADC	320.0 µA, 3200 µA, 32.00 mA, 320.0 mA, 10.00A	±(0.75%+2)
AAC	320.0 µA, 3200 µA, 32.00 mA, 320.0 mA, 10.00A	±(1.5%+2)
Resistance	320.0Ω, 3.200 kΩ, 32.00 kΩ, 320.0 kΩ, 3.200 MΩ, 32.00 MΩ	±(0.2%+1)
Conductance	32.00 nS	±(2%+10)

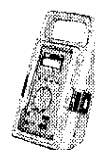
**Battery Life:** Typically over 1000 hours (alkaline)

**Size:** 203 mm L x 95 mm W x 56 mm D (8" L x 3.75" W x 2.2" D)

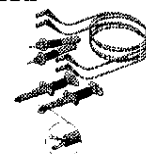
**Weight:** 0.75 kg (1.6 lb)

**Three Year Warranty:** One year calibration interval

### Recommended Accessories



C20 Hard Carrying Case



TL20 Industrial Test Lead Set

## Accessories and Ordering Information

### Included Accessories

The Fluke 25 and 27 are both offered in dark charcoal grey or safety yellow. Each meter is packed with a pair of safety designed TL75 right-angle test leads, two insulated alligator clips, spare fuse, 9 volt battery and operator's manual.

### Ordering Information

- Fluke 27 STD Multimeter (charcoal grey case)
- Fluke 27 YEL Multimeter (yellow case)
- Fluke 25 STD Multimeter (charcoal grey case)
- Fluke 25 YEL Multimeter (yellow case)

Need Technical Assistance? Call:

**1-800-44-FLUKE**

Toll-free in the U.S.

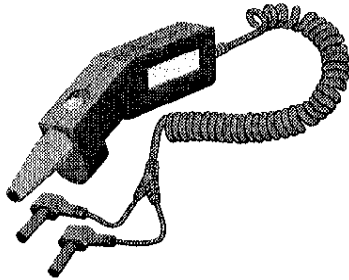
(905) 890-7600 in Canada

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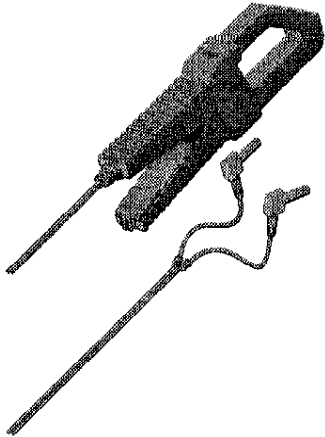
## Recommended Accessories for 20 Series Multimeters

Consider These Best-Selling Accessories  
for Your Fluke DMM



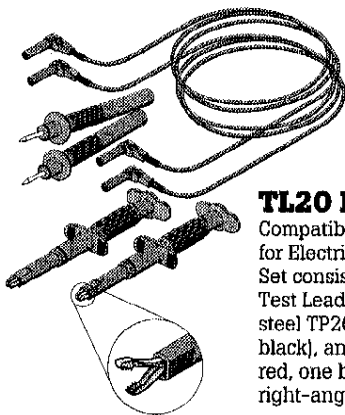
### 80T-IR Infrared Temperature Probe

- Fast non-contact temperature measurements
- Ideal when object to measure is moving, hard to reach, hazardous to touch, or easily contaminated
- 0 to 500°F (-18 to 260°C) measurement range
- Internal selection switch for °F or °C



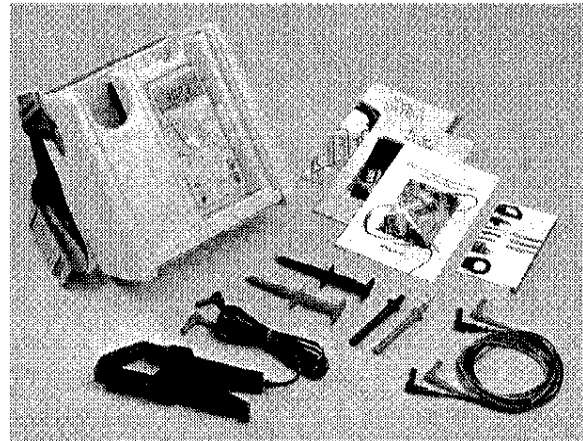
### 80i-400 Clamp-On AC Current Probe

Measures ac current from 1A to 400A. Output to meter is 1 mA/Amp ac. (1000 to 1 division ratio.) Maximum conductor size: One 750 MCM or two 500 MCM cables. Accuracy:  $\pm(3\% + 0.4A)$  from 48 Hz to 1000 Hz.



### TL20 Industrial Test Lead Set

Compatible with all Fluke DMMs. Recommended for Electrical, Industrial and HVAC applications. Set consists of silicone-insulated TL22 Flexible Test Leads (one red and one black), stainless-steel TP20 Industrial Test Probes (one red, one black), and AC20 Industrial Alligator Clips (one red, one black). Rated for 1000V, 10A. Shrouded, right-angle connectors.



### Combine Meter and Accessories for Substantial Cost Savings

Purchase a fully equipped Fluke 23 Service Kit, and receive a full 10% off the regular price. Each kit comes with a Fluke 23 Analog/Digital Multimeter plus durable and safety-tested leads, probes, and clips—the tools you need for industrial, electrical or HVAC applications. A hard case holds the meter in transit with right angle test leads connected. Kits include training and application booklets.

#### Fluke 23 Service Kit

Fluke 23

Analog/Digital Multimeter

80i-400 AC Current Probe (measures current to 400A)

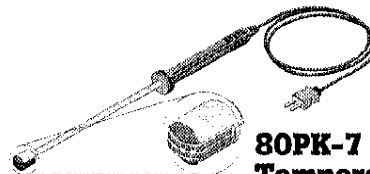
TP20 Industrial Test Probes, safety designed and extra long to reach deep test points

TL22 Flexible Test Leads (hot and cold resistant)

AC20 Industrial Test Clips, safety-grip, spring loaded with extra wide jaw openings

C17Y Hard Case

Training and Application Booklets



### 80PK-7 Surface Temperature Probe

The Fluke 80PK-7 Surface Temperature Probe, is a rugged Type K thermocouple probe for use with any temperature meter (works exceptionally well with the Fluke 51 and 52 Digital Thermometers, as well as 80TK Temperature Module accessory).

The metal shaft can be bent to any angle from 10° to 90°. If an application demands a 45° angle or a 90° angle, this probe is the one to use! This is a one time only procedure though, once bent you can't bend the shaft to it's original position.