

TECHNICAL DATA

# Fluke 106 Palm-sized Digital Multimeter



## Key features

- Voltage, resistance, continuity, capacitance
- Input terminal for ac and dc current measurements to 10 A and current
- Data hold

## Product overview: Fluke 106 Palm-sized Digital Multimeter

The Fluke 106 digital multimeter is made to fit the way you work! It is designed to fit in the palm of your hand and go with you no matter where your job takes you.

## Specifications: Fluke 106 Palm-sized Digital Multimeter

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, relative humidity at 0 % to 75 %. Accuracy specifications take the form of: ±([% of Reading] + [Number of Least Significant Digits])

| Accuracy Specifications                   |         |            |           |
|---|---------|------------|-----------|
| Function                                  | Range   | Resolution | Accuracy  |
| AC Volts<br>(40 Hz to 500Hz) <sup>1</sup> | 6.000 V | 0.001 V    | 1.0 % + 3 |
|   | 60.00 V | 0.01 V     |           |
|   | 600.0 V | 0.1 V      |           |

|  |   |   |  |
|--|---|---|--|
| DC Volts                                       | 6.000 V<br>60.00 V<br>600.0 V                                       | 0.001 V<br>0.01 V<br>0.1 V                                    | 0.5 % + 3  |
| AC Millivolts                                  | 600.0 mV  | 0.1 mV  | 3.0 % + 3  |
| Resistance<br>(Ohms)                           | 400.0 Ω<br>4.000 kΩ<br>40.00 kΩ<br>400.0 kΩ<br>4.000 MΩ<br>40.00 MΩ | 0.1 Ω<br>0.001 kΩ<br>0.01 kΩ<br>0.1 kΩ<br>0.001 MΩ<br>0.01 MΩ | 0.5 % + 3<br>0.5 % + 2<br>0.5 % + 2<br>0.5 % + 2<br>0.5 % + 2<br>1.5 % + 3 |
| Capacitance <sup>2</sup>                       | 50.00 nF<br>500.0 nF<br>5.000 μF<br>50.00 μF<br>500.0 μF<br>1000 μF | 0.01 nF<br>0.1 nF<br>0.001 μF<br>0.01 μF<br>0.1 μF<br>1 μF    | 2 % + 5<br>2 % + 5<br>5 % + 5<br>5 % + 5<br>5 % + 5<br>5 % + 5             |
| Frequency <sup>3</sup> Hz<br>(10 Hz – 100 kHz) | 50.00 Hz<br>500.0 Hz<br>5.000 kHz<br>50.00 kHz<br>100.0 kHz         | 0.01 Hz<br>0.1 Hz<br>0.001 kHz<br>0.01 kHz<br>0.1 kHz         | NA   |
| Duty Cycle <sup>3</sup>                        | 1 % to 99 %   | 0.1 %   | NA   |
| AC Current<br>(40 Hz to 200 Hz)                | 4.000 A<br>10.00 A  | 0.001 A<br>0.01 A   | 1.5 % + 3  |
| DC Current                                     | 4.000 A<br>10.00 A  | 0.001 A<br>0.01 A   | 1.5 % + 3  |

1. All AC, Hz, and duty cycle are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.
2. Specifications do not include errors due to test lead capacitance and capacitance floor (may be up to 1.5 nF in the 50 nF range).
3. All AC, Hz, and duty cycle are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.

| Function       | Overload Protection | Input Impedance<br>(Nominal) | Common Mode<br>Rejection Ratio   | Normal Mode<br>Rejection Ratio |
|----------------|---------------------|------------------------------|----------------------------------|--------------------------------|
| AC Volts       | 600 V <sup>1</sup>  | >10 MΩ <100 pF <sup>2</sup>  | >60 dB at dc,<br>50 Hz or 60 Hz  | –                              |
| VAC Millivolts | 600 mV              | >1M, <100 pF                 | >80 dB at 50 Hz or 60<br>Hz      | –                              |
| DC Volts       | 600 V <sup>1</sup>  | >10 MΩ <100 pF               | >100 dB at dc,<br>50 Hz or 60 Hz | >60 dB at 50 Hz or 60<br>Hz    |

1. 6 x 10<sup>5</sup> V Hz Max
2. For mV (AC), input impedance is approximately 1 MΩ.

### General Specifications

|   |                            |
|---|----------------------------|
| Maximum Voltage Between any Terminal and Earth Ground | 600 V                      |
| Display (LCD)   | 6000 counts, updates 3/sec |
| Battery Type  | 2 AAA, NEDA 24A, IEC LR03  |
| Battery Life  | 200 hours minimum          |

### Temperature

|  |   |
|--|---|
| Operating  | 0 °C to 40 °C   |
| Storage  | -30 °C to 60 °C   |
| <b>Relative Humidity</b>   |   |
| Operating Humidity   | Non-condensing when <10°C<br>≤90 % at 10 °C to 30 °C; ≤75 % at 30 °C to 40 °C                                       |
| Operating Humidity, 40 MΩ Range  | ≤80 % at 10 °C to 30 °C; ≤70 % at 30 °C to 40 °C  |
| <b>Altitude</b>  |   |
| Operating  | 2000 m  |
| Storage  | 12,000 m  |
| Temperature Coefficient  | 0.1 X (specified accuracy) /°C (<18 °C or >28 °C)   |
| Fuse Protection for Current Inputs   | 11A, 1000V Fast Fuse, Fluke specified part only   |
| Size (HxWxL)   | 142 mm x 69 mm x 28mm   |
| Weight   | 200 g   |
| IP Rating  | IEC 60529: IP 40  |
| Safety   | IEC 61010-1: 600 V CAT III, Pollution Degree 2  |
| Electromagnetic Environment  | IEC 61326-1: Portable   |
| Electromagnetic Compatibility  | Applies to use the Korea only. Class A Equipment (Industrial Broadcasting and Communication Equipment) <sup>1</sup> |
| <p>1. This product meets requirements for industrial (Class A) electromagnetic wave equipment and seller or user should take notice of it. This equipment is intended for use in business environments and is not to be used in homes.</p> |   |

## Ordering information



### **Fluke 106**

Fluke 106 Palm-sized Digital Multimeter

Includes:

- Fluke 106 Palm-sized Digital Multimeter
- TI75 Hard Point Test Lead Set
- 2 AAA Batteries (Installed)
- User's Manual

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

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