

FLUKE

12

The Fluke 12 is a compact, reliable digital multimeter from the Fluke 10 Series, featuring VCheck™ automatic measurement selection, capacitance measurement, min/max recording with relative elapsed time, and a 4000-count digital display. Built for electrical troubleshooting, it provides automatic AC/DC voltage selection and manual/automatic ranging.

SPECIFICATIONS

General

Display	4000-count LCD
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Physical

Power Supply	9 V battery (NEDA 1604, 6F22, or 006P)
Operating Temperature	-10 °C to 50 °C °C
Dimensions (W×H×D)	70.5 mm × 142.3 mm × 34.6 mm mm

DC Voltage Measurement

DC Voltage Range	4.000 V / 40.00 V / 400.0 V / 600 V
DC Voltage Best Resolution	1 mV
DC Voltage Best Accuracy	±(0.9% + 1)
Overload Protection (DC)	600 V rms

AC Voltage Measurement

AC Voltage Range	4.000 V / 40.00 V / 400.0 V / 600 V
AC Voltage Best Resolution	1 mV
AC Voltage Best Accuracy	±(1.9% + 3)
Measurement Type	Average responding, RMS calibrated
Overload Protection (AC)	600 V rms

Resistance Measurement

Resistance Range	400.0 Ω / 4.000 kΩ / 40.00 kΩ / 400.0 kΩ / 4.000 MΩ / 40.00 MΩ
Resistance Best Resolution	0.1 Ω
Resistance Best Accuracy	±(0.9% + 1)
Overload Protection (Resistance)	600 V rms

Continuity and Diode Testing

Diode Test Range	2.000 V
Diode Test Resolution	1 mV
Overload Protection (Continuity & Diode)	600 V rms

Capacitance Measurement

Capacitance Range	1.000 μ F / 10.00 μ F / 100.0 μ F / 1000 μ F / 10,000 μ F
Capacitance Best Resolution	0.001 μ F
Capacitance Best Accuracy	$\pm(1.9\% + 2)$
Overload Protection (Capacitance)	600 V rms

Special Functions and Modes

Automatic Volts/Ohms Selection	VChek™ automatic measurement selection
Ranging Modes	Manual and automatic ranging
Min/Max Recording	Records highest and lowest voltage readings over 100 hours
Relative Time Stamp	Displays elapsed time since recording started up to 100 hours
Sleep Mode (Auto Power Off)	Powers down after 45 minutes of inactivity

Safety and Compliance

Maximum Working Voltage	600 V AC/DC between any terminal and earth ground
Agency Approvals & Certifications	ANSI/ISA-S82.01-1994, CSA C22.2 No. 1010.1-92, EN61010-1:1993

Physical and Mechanical Specifications

Display Update Rate	4 times per second
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Power Requirements and Environmental Limits

Battery Life	650 hours typical with alkaline battery
Storage Temperature Range	-30 °C to 60 °C
Operating Humidity Range	0% to 90% (0 °C to 35 °C), 0% to 70% (35 °C to 50 °C)
Temperature Coefficient	0.1 $\times$ (specified accuracy) per °C (< 18 °C or > 28 °C)
Operating Altitude	Up to 2000 m

Performance

Continuity Capture Minimum Pulse Width	250 μ s
VChek Voltage Switch Threshold	Approximately 4.5 V AC/DC

Resistance

Resistance Mode Open Circuit Voltage	< 1.3 V DC (< 1.5 V DC on 40 M Ω range)
Resistance Mode Full Scale Voltage	< 450 mV (up to 4 M Ω), < 1.3 V (40 M Ω)
Resistance Mode Short Circuit Current	< 500 μ A

Maintenance

Recommended Calibration Interval	1 year
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Environmental

Storage Altitude	12000 m
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Safety & Compliance

Pollution Degree	2
Rated Transient Overvoltage	6 kV peak

TECHNOLOGY

Digital Multimeter

APPLICATIONS

Electrical testing, troubleshooting, and general-purpose maintenance

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.