

Di-LOG
...measurably better

DL9309

True RMS Digital Multimeter



- Large Backlit LCD Display
- Min/Max & Peak Hold
- Auto Power Off
- Relative Mode
- Data Hold
- Double Moulded
- Full Range Protection
- 6000 Counts LCD Display

- AC/DC Voltage to 1000V,
- AC/DC Current to 10A
- Resistance to 60 MΩ
- Capacitance to 1000uF
- Audible Continuity to 100Ω

- Frequency to 40MHz
- Temperature to 1382 °F
- Diode Test
- EN61010-1, CAT IV 600V
CAT III 1000V

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SPECIFICATIONS

DC Voltage (Auto-ranging)

Range	Resolution	Accuracy
600.0mV	0.1mV	±0.09 % of rdg ± 2 dgts
6.000V	0.001V	±0.09 % of rdg ± 2 dgts
60.00V	0.01V	±0.09 % of rdg ± 2 dgts
600.0V	0.1V	±0.09 % of rdg ± 2 dgts
1000V	1V	±0.15 % of rdg ± 2 dgts

Input Impedance: 10MΩ.

Maximum Input: 1000V DC or 1000V AC rms.

AC Voltage (Auto-ranging)

Range	Resolution	Accuracy
6.000V	0.001V	±1.0 % of rdg ± 3 dgts
60.00V	0.01V	±1.0 % of rdg ± 3 dgts
600.0V	0.1V	±1.0 % of rdg ± 3 dgts
1000V	1V	±1.2 % of rdg ± 3 dgts

Input Impedance: 10MΩ.

Frequency Range: True RMS, 50 to 400Hz

Maximum Input: 1000V DC or 1000V AC rms.

DC Current (Auto-ranging)

Range	Resolution	Accuracy
600.0uA	0.1uA	±1.0 % of rdg ± 3 dgts
6000uA	1uA	±1.0 % of rdg ± 3 dgts
60.00mA	0.01mA	±1.0 % of rdg ± 3 dgts
600.0mA	100uA	±1.0 % of rdg ± 3 dgts
6.000A	0.001A	±1.5 % of rdg ± 3 dgts
10.00A	0.01A	±1.5 % of rdg ± 3 dgts

Overload Protection: 0.8A / 1000V and 10A / 1000V Fuse.

Maximum Input: 400uA DC on uA range, 400mA DC on mA range, 10A DC on 10A range (20A: 30Seconds max with reduced accuracy)

AC Current (Auto-ranging)

Range	Resolution	Accuracy
600.0uA	0.1uA	±1.5 % of rdg ± 3 dgts
6000uA	1uA	±1.5 % of rdg ± 3 dgts
60.00mA	0.01mA	±1.5 % of rdg ± 3 dgts
600.0mA	100uA	±1.5 % of rdg ± 3 dgts
6.000A	0.001A	±2.0 % of rdg ± 3 dgts
10.00A	0.01A	±2.0 % of rdg ± 3 dgts

Overload Protection: 0.5A / 1000V and 10A / 1000V Fuse.

Frequency Range: True RMS, 50 to 60Hz.

Maximum Input: 400uA AC on uA range, 400mA AC on mA range, 10A AC on 10A range (20A: 30Seconds max with reduced accuracy)

Resistance (Auto-ranging)

Range	Resolution	Accuracy
600.0Ω	0.1Ω	±0.3 % of rdg ± 4 dgts
6.000kΩ	0.001kΩ	±0.3 % of rdg ± 4 dgts
60.00kΩ	0.01kΩ	±0.3 % of rdg ± 4 dgts
600.0kΩ	0.1kΩ	±0.3 % of rdg ± 4 dgts
6.000MΩ	0.001MΩ	±0.3 % of rdg ± 4 dgts
60.00MΩ	0.01MΩ	±0.5 % of rdg ± 20 dgts

Input Protection: 1000V DC or 1000V AC RMS.

Diode Test

Test current: 0.9mA typical/Open MAX 3V DC

Open circuit voltage: MAX 2.8V DC

Overload protection: 1000V DC AC RMS.

Audible continuity

Audible threshold: Less than 100Ω;

Test current: 0.35mA

Overload protection: 1000V DC or AC RMS.

Capacitance (Auto-ranging)

Range	Resolution	Accuracy
60.00nF	0.01nF	±3.5 % of rdg ± 4 dgts
600.0nF	0.1nF	±3.5 % of rdg ± 4 dgts
6.000uF	0.001uF	±3.5 % of rdg ± 4 dgts
60.00uF	0.01uF	±3.5 % of rdg ± 4 dgts
600.0uF	0.1uF	±3.5 % of rdg ± 4 dgts
1000uF	1uF	±5.0 % of rdg ± 5 dgts

Input Protection: 1000V DC or 1000V AC RMS.

Frequency (Auto-ranging)

Range	Resolution	Accuracy
9.999Hz	0.001Hz	
99.99Hz	0.01Hz	±0.1 % of rdg ± 1 dgts
999.9Hz	0.1Hz	±0.1 % of rdg ± 1 dgts
9.999kHz	0.001kHz	±0.1 % of rdg ± 1 dgts
99.99kHz	0.01kHz	±0.1 % of rdg ± 1 dgts
999.9kHz	0.1kHz	±0.1 % of rdg ± 1 dgts
9.999MHz	0.001MHz	±0.1 % of rdg ± 1 dgts
40.00MHz	0.1MHz	±0.1 % of rdg ± 1 dgts

Sensitivity: 0.8V RMS @ 20% to 80% duty cycle and (100kHz

Sensitivity: 5V RMS @ 20% to 80% duty cycle and > 100kHz

Input Protection: 1000V DC or 1000V AC RMS

Duty Cycle

Range	Resolution	Accuracy
0.1% - 99.9%	0.1%	±1.2 % of rdg ± 2 dgts

Pulse Width: >100us to 100ms; **Frequency Width:** 5Hz - 150kHz

Sensitivity: >0.8V RMS; **Overload Protection:** 1000V DC or AC rms

Temperature (Auto-ranging)

Range	Resolution	Accuracy
-45°C - 760°C	1°C	±3% of rdg ± 5 dgts
-50°F - 1382°F	1°F	±3% of rdg ± 9 dgts

Sensor: Type K Thermocouple (Accuracy not included)

Overload Protection: 1000V DC or AC RMS.

Miscellaneous

Supplied with 1x 9V battery

Dimensions: 182(H) x 82(W) x 55(D) mm

Weight: 360g

**All Di-log Multimeters
supported by a
2 Year Warranty**



IEC: 61010-1:2001 and IEC61010-1 2nd edition (2001), UL 61010-1 2nd edition (2004), CAN/CSA C22.2 No 61010-1 2nd edition(2004) and UL 61010B-2 -031, 1st edition (2003)

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