

Model HD110

Professional Digital Multimeter



- Completely sealed and environment-proof meters
- VDC accuracy of 0.1 %
- Superior 1500-hour battery life

HD110 Specifications (at 23 °C ± 5 °C; < 70 % R.H.)

DC Voltage	
Ranges	200 mV, 2 V, 20 V, 200 V, 1500 V
Accuracy	± (0.1 % rdg + 1 dgt)
Resolution	0.1 mV in 200 mV range
Input Impedance	10 MΩ
NMRR	> 60 db
CMRR	> 60 db (49 Hz)
AC Voltage	
Ranges	200 mV, 2 V, 20 V, 200 V, 1000 V
Accuracy	200 mV, 2 V, 20 V: 45 Hz-2 kHz ± (0.75 % rdg + 3 dgts) 2 kHz-5 kHz ± (1.5 % rdg + 5 dgts) 200 V: 45 Hz-1 kHz ± (0.75 % rdg + 3 dgts) 1000 V: 45 Hz-500 Hz ± (0.75 % rdg + 3 dgts) 500 Hz-1000 Hz ± (1.5 % rdg + 5 dgts)
Resolution	0.1 mV in 200 mV range
AC Conversion	Average sensing, rms indicating
Input Impedance	10 MΩ//75 pF
DC Current	
Ranges	200 μA, 2 mA, 20 mA, 200 mA, 2 A, 10 A
Accuracy	200 μA-2 A: ± (0.35 % rdg + 1 dgt) 10 A: ± (1.0 % rdg + 1 dgt)
Resolution	0.1 μA in 200 μA range
Burden Voltage	200 μA range: 1 mV/1 μA 2 mA range: 100 mV/1 mA 20 mA range: 10 mV/1 mA 200 mA range: 1.2 mV/1 mA 2 A range: 300 mV/1 A 10 A range: 37 mV/1 A
AC Current	
Ranges	200 μA, 2 mA, 20 mA, 200 mA, 2 A, 10 A
Accuracy	200 μA-2 A (45 Hz-2 kHz): ± (0.9 % rdg + 3 dgt) 10 A (45-400 Hz): ± (1.5 % rdg + 3 dgt)
Resolution	0.1 μA in 200 μA range
AC Conversion Type	Average sensing, rms indicating
Burden Voltage	See DC Current
Resistance	
Ranges	200 Ω, 2 kΩ, 20 kΩ, 200 kΩ, 2 MΩ, 20 MΩ
Accuracy	200 Ω-2 MΩ: ± (0.2 % rdg + 1 dgt) 20 MΩ: ± (1.0 % rdg + 1 dgt)
Resolution	0.1 Ω in 200 Ω range
Max Open Circuit Voltage	200 Ω: 3 V Other: 0.3 V
Max In-Range Voltage	200 mV
Max Test Current	2.5 mA
Diode Test	
Range	0 to 2 V
Accuracy	± (6.0 % rdg + 2 dgts)
Test Current	2 mA ± 20 %
Display Response	1 sec.
Continuity	
Tone and Visual Signal	< 80 Ω

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HD110 Specifications (at 23 °C ± 5 °C; < 70 % R.H.) *cont.*

Overload Protection

Transient Protection

ACV/DCV any Range 3 kV for 10 µs

DCV Range 1500 V DC or pk ac any range

ACV Ranges 1000 Vrms/1500 V pk ac or
250 V DC (5 sec max. above 450 V rms on 200 mV range)

Current Range 200 µA-2 A ranges: 2 A/600 V fuse (3000 A interrupt rating)
10 A range: 15 A/600 V fuse (100 kA interrupt rating)

Resistance/Diode/
Continuity Ranges 600 V DC or rms AC



General Specifications

Display: 3½ digit LCD; **Measurement Rate:** 2.5/sec.; **Response Time:** < 2 msec; **Battery Type:** One 9 V battery NEDA 1604; **Battery Life:** 1500 hours; **Operating Temperature:** 0 °C-50 °C (32 °F to 122 °F)/0 to 80 % R.H.; **Storage Temperature:** -40 °C to 65 °C (-40 °F to 149 °F); **Dimensions (HxWxD):** 184 x 102 x 50 mm (6.9" x 3.7" x 1.8"); **Weight:** 543 g (1 lb. 3 oz.); **Included Accessories:** Test leads, battery, operator's manual

Features

Shock and Vibration: Meets MIL -T-28800; **Low Battery Indicator** at 100 hours; **Warranty:** One-year

Optional Accessories

VC221A Vinyl Case; DL243C Basic Test Lead Kit; DL248C Deluxe Test Lead Kit; TL35A Test Lead Set with Alligator Clips

For additional accessories, see the Accessories Compatibility Guide at www.metermantesttools.com



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Meterman Test Tools

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