

Model HD110B

Heavy Duty Digital Multimeter



- Best DMM for electrical and industrial field work
- Most rugged DMM available
- Special sealing for environment and water proofing. IP67 and MIL-PRF 28800F rated
- Drop-proof special housing and PCB mounting
- Extra fusing and protection from accidental overloads
- Highest voltage measuring to 1500VDC and 1000VAC
- Oversized, shock mounted LC display
- Auto-power off
- Unique live voltage Safety Tester™
- Holster included
- CAT III 1000 V rated

HD110B Specifications (at 23 °C ± 5 °C; < 80 % R.H. non-condensing)

DC Voltage	
Ranges	200 mV, 2 V, 20 V, 200 V, 1500 V
Accuracy	± (0.1 % rdg + 2 dgt)
Resolution	100 µV in 200 mV range
Input Impedance	10 MΩ
CMRR	> 120 db @ < 1000 V DC (1 kΩ unbalanced)
NMRR	> 60 db @ 50/60 Hz
AC Voltage	
Ranges	200 mV, 2 V, 20 V, 200 V, 1000 V
Accuracy	200 mV-200 V(40 - 500 Hz): ± (0.8 % rdg + 4 dgts) 200 mV-20 V(500 Hz - 5k Hz): ± (1.5 % rdg + 5 dgts) 200 V (500 Hz- 2k Hz): ± (1.5 % rdg + 5 dgts) 1000 V (50-60 Hz): ± (0.8 % rdg + 5 dgts) (60-500 Hz): ± (1.5 % rdg + 5 dgts)
Resolution	100 µV in 200 mV range
Input Impedance	10 MΩ
DC Current	
Ranges	200 µA, 2 mA, 20 mA, 200 mA, 2 A, 10 A
Accuracy	200 µA-20 mA: ± (0.5 % rdg + 2 dgts) 200 m-2 A: ± (1.0 % rdg + 2 dgts) 10 A: ± (1.2 % rdg + 2 dgts)
Resolution	100 nA in 200 mV range
Voltage Burden	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 mV/1 mA 2 A range: 370 mV/1 A 10 A range: 53 mV/1 A
AC Current (45 Hz-1 kHz)	
Ranges	200 µA, 2 mA, 20 mA, 200 mA, 2 A, 10 A
Accuracy	200 µA -20 mA: ± (0.8 % rdg + 4 dgts) 200 mA-2 A: ± (1.2 % rdg + 4 dgts) 10 A: ± (1.5 % rdg + 4 dgts)
Resolution	100 nA in 200 µA range
Voltage Burden	See DC Current
Resistance	
Ranges	200 Ω, 2 kΩ, 20 kΩ, 200 kΩ, 2 MΩ, 20 MΩ
Accuracy	200 Ω: ± (0.5 % rdg + 4 dgts) 2 k - 200 kΩ: ± (0.3 % rdg + 2 dgts) 2 MΩ: ± (0.5 % rdg + 4 dgts) 20 MΩ: ± (1.2 % rdg + 4 dgts)
Resolution	100 mΩ in 200 Ω range
Open Circuit Voltage	200 Ω range: 3.0 VDC typical all other ranges: 0.3 VDC
Diode Test	
Test Current	1 mA DC
Open Circuit Voltage	3.0 V DC
Accuracy	± (1.5 % rdg + 2 dgt)
Continuity Test	
Audible Threshold	< 50 Ω
Response Time	< 100 msec
Open Circuit Voltage	3.0 VDC
Safety Tester	
Signal Voltage Levels	24 V, 50 V, 120 V, 240 V, 480 V, AC or DC
Maximum Input	600 V AC for 60 sec

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HD110B Specifications (at 23 °C ± 5 °C; < 80 % R.H. non-condensing) *cont.*

Overload Protection

Voltage	1500 V DC/1000 V AC rms
Transient Protection	6 kV for 10 µs
Current	A Input: 2 A/600 V fast blow ceramic, size 6.35 x 25.4 mm 10 A Input: 15 A/600 V 100 k IR fast blow ceramic, size 10 x 38 mm UL listed
Diode, Resistance	500 V DC or V AC rms



General Specifications

Display: 3 1/2 digit LCD, 1999 counts; **Display Update Rate:** 2/sec. nominal; **Power:** 9 V battery, NEDA 1604, JIS 006P, IEC 6F22; **Battery Life:** 300 hours; **Operating Temperature:** 0 °C to + 50 °C, 0 to 80 % R.H.; **Storage Temperature:** - 20 °C to 60 °C, 0 to 80 % R.H. battery removed; **Temperature Coefficient:** < 0.1 x (spec.accuracy)/°C (0 °C to 18 °C and 28 °C to 50 °C); **Dimensions (HxWxD):** 224 x 99 x 58 mm (8.8" x 3.9" x 2.3); **Weight (incl. battery):** 635 g (1.4 lb); **Included Accessories:** Test leads, operators manual, holster

Features

Data Hold: Holds the display reading for all functions and ranges; **Low Battery Indication** at 50 hours; **Auto Power-Down** at 45 minutes; **Warranty:** One-year

Optional Accessories

DC207B Hard 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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