

# Model HD110T

## Digital Multimeter



- Completely sealed and environment proof meters
- V DC accuracy of 0.1 %
- Superior 1500 battery life
- Temperature input

### HD110T Specifications (at 23 °C ± 5 °C; < 70 % R.H.)

<b>DC Voltage</b>	
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 (> 49 Hz)
CMRR	> 60 db (> 49 Hz)
<b>AC Voltage</b>	
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
<b>DC Current</b>	
Ranges	200 μA, 2 mA, 20 mA, 200 mA, 10 A
Accuracy	200 μA-200 mA: ± (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/1A
<b>AC Current</b>	
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 dgts) 10 A (45-400 Hz): ± (1.5 % rdg + 3 dgts)
Resolution	0.1 μA in 200 μA range
AC Conversion Type	Average sensing, rms indicating
Burden Voltage	See DC Current
<b>Resistance</b>	
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	300 mV
Max In-Range Voltage	200 mV
Max Test Current	2.5 mA
<b>Temperature</b>	
Range	- 4 °F to + 1999 °F
Accuracy	- 4 °F to 31 °F: ± 6 °F 32 °F to 572 °F: ± 5 °F 573 °F to 800 °F: ± (1 % rdg + 2 °F) 801 °F to 1000 °F: ± (2 % rdg + 3 °F) 1001 °F to 1999 °F: ± 3 % rdg
Resolution	1 °F
Thermocouple Type	Type K ± 3.6 °F Model TP255 bead probe included

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### HD110T Specifications (at 23 °C ± 5 °C; < 70 % R.H.) cont.

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
Overload Protection	
Transient Protection	
ACV/DCV Any Range	3 kV for 10 μs
DCV Range	1500 VDC or pk AC any range
ACV Ranges	1000 V rms/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; **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); **Battery Type:** One 9 V battery NEDA 1604; **Battery Life:** 1200 hours; **Dimensions (HxWxD):** 184 x 102 x 50 mm (6.9" x 3.9" x 2.0"); **Weight:** 543 g (1 lb. 3 oz); **Included Accessories:** Test leads, battery, operator's manual, Type K bead probe

#### 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](http://www.metermantesttools.com)

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