

Model HD115B

Heavy Duty Digital Multimeter

Digital Multimeter



- Six capacitance measuring ranges
- Exclusive, best "Digi-Glo" backlight
- Special sealing for environment and water proofing, IP67 and MIL-SPF-28800F rated
- Extra fusing and protection from accidental overloads
- Highest voltage measuring to 1500 V dc and 1000 V ac
- Unique live voltage Safety Tester™
- CAT III 1000 V rated

HD115B 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 k 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-5 kHz): ± (1.0 % rdg + 5 dgts) 200 V (500 Hz-2 kHz): ± (1.5 % rdg + 5 dgts) 1000V (50 Hz-60 Hz): ± (0.8 % rdg + 5 dgts) (60 Hz-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 + 2dgts) 200 mA-2 A ± (1.0 % rdg + 2 dgts) 10 A ± (1.2 % rdg + 2 dgts)
Resolution	100 nA in 200 µA 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	200Ω: ± (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 V DC typical All other ranges: 0.3 V DC
Diode Test	
Test Current	1 mA DC
Test Voltage	3.0 V DC
Display	Forward junction voltage
Continuity Test	
Audible Threshold	< 50 Ω
Response Time	< 100 msec
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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HD115B Specifications (at 23 °C ± 5 °C, < 80 % R.H. non-condensing) *cont.*

Capacitance	
Ranges	200 n, 2 μ , 20 μ , 200 μ , 2 m, 20 mF
Resolution	100 pF in 200 nF range
Accuracy	200 nF-2 mF: $\pm$ (2 % rdg + 4 dgt) 20 mF: $\pm$ (3 % rdg + 4 dgt)
Test Frequency/Response Time	200 nF: 820 Hz / 1.5 sec 2 μ F and 20 μ F: 82 Hz / 5 sec 200 μ F-20 mF: 8.2 Hz / 10 sec
OL Protection	0.1 A / 250 V fast blow fuse, 5 x 20 mm
Overload Protection	
DC Voltage	200 mV range: 350 V AC/500 V DC (15 sec) All other ranges: 600 V rms/1000 V DC (60 sec)
AC Voltage	All ranges 500 V DC or AC rms
Transient Protection	6 kV for 10 ms
Current	200 mA input: 0.5 A/250 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
Resistance/Continuity	500 V DC or 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:** 100 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; **Dimensions (HxWxD):** 224 x 99 x 58 mm (8.8" x 3.9" x 2.3") **Weight (incl. battery):** 653 grams (1.44 lb) **Included Accessories:** Test leads, operators manual, holster

Features

Peak Hold; Probe Hold; Min/Max; Low Battery Indication at 50 Hours; **Auto Power-Down** at 30 minutes; **DigiGlo™ Backlight; Warranty:** One-year

Optional Accessories

DC207B Deluxe 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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