

HD110B & HD115B SPECIFICATIONS

AC & DC Voltage

<i>Ranges</i>	200mV, 2V, 20V, 200V, 1500VDC/1000AC
<i>DC Accuracy</i>	±0.1% rdg, ±2dgt
<i>AC Accuracy</i>	200mV – ±0.8% rdg, ±4dgt (@ 40-500Hz) 200V – ±0.8% rdg, ±4dgt (@50Hz, 60Hz) 200mV-20V – ±1.5% rdg, ±5dgt (@500Hz-5kHz) 200V – ±1.5% rdg, ±5dgt (@500Hz-2kHz) 1000V – ±1.5% rdg, ±5dgt (@60Hz-500Hz)

<i>AC Conversion</i>	Average Sensing, RMS Indicating
<i>Input Impedance</i>	10M Ω
<i>Overload Protection</i>	1500VDC or AC Peak, 6kV transient (10 μ s)

AC & DC Current

<i>Ranges</i>	200 μ A, 2mA, 20mA, 200mA, 2A, 10A (20A for 30 seconds)
<i>DC Accuracy</i>	200 μ A – ±0.5% rdg, ±2dgt 20 μ A – ±0.5% rdg, ±2dgt 200mA, 2A – ±1.0% rdg, ±2dgt 10A – ±1.2% rdg, ±2dgt
<i>AC Accuracy</i>	200 μ A – ±0.8% rdg, ±4dgt 20mA – ±1.2% rdg, ±4dgt 200mA, 2A – ±1.2% rdg, ±4dgt 10A – ±1.5% rdg, ±4dgt

<i>AC Conversion</i>	Average Sensing, RMS Indicating
<i>Max. Voltage Burden</i>	250mV (200 μ A-20mA); 650mV (200mA-10A)
<i>Overload Protection</i>	mA input 2A/600V fast blow fuse, 10kA interrupt A input 15A/600V fast blow fuse, 100kA interrupt

Resistance

<i>Ranges</i>	200, 2K, 20k, 200k, 2M, 20M Ω
<i>Accuracy</i>	200 Ω – ±0.5% rdg, ±4dgt 2K Ω -200k Ω ±0.3% rdg, ±2dgt 2M Ω – ±0.5% rdg, ±4dgt 20M Ω – ±1.2% rdg, ±4dgt
<i>Overload Protection</i>	500VDC or AC RMS
<i>Open Circuit Voltage</i>	3V typical (200 Ω range); 0.3V typical (all other ranges)

Capacitance (HD115B)

<i>Ranges</i>	200nF, 2 μ F, 20 μ F, 200 μ F, 2mF, 20mF
<i>Accuracy</i>	200nF-20mF ±2.0% rdg, ±4dgt 20mF ±3.0% rdg, ±4dgt
<i>Overload Protection</i>	100mA/250V fast blow fuse

Safety Tester™

	24V, 50V, 120V, 240V, 480V
<i>Maximum Input Voltage</i>	600V for 60 seconds

Continuity Test

Constant Tone <50 Ω threshold

Diode Test

1mA/3.0VDC typical

Agency Approvals, Ratings, Testing

EN61010-1, Cat. III, 1500VDC/1000VAC; CE IP67: MIL-PRF-28800F, class 2 drip-proof

Battery Type/Life

9V, 300 hrs w/30 minute auto-off

HD160B SPECIFICATIONS

AC & DC Voltage

<i>DC Ranges:</i>	1V, 10V, 100V, 1500VDC
<i>DC Accuracy:</i>	±0.1% rdg, 2 dgt (10V-155V); ±0.25% rdg, 6 dgt (1V)
<i>AC Ranges:</i>	10V, 100V, 1000V
<i>AC Accuracy:</i>	10V range ±1.5% rdg; ±5 dgt (45Hz-10kHz) 100V range (0-30V) ±1.5% rdg, ±3 dgt (45Hz-10kHz); ±2.5% rdg, ±5dgt (10kHz-30kHz)

	(30-100V) ±1.5% rdg, ±3 dgt (45Hz-1kHz)
<i>1000V range</i>	±1.5% rdg, ±5 dgt (45Hz-1kHz)
<i>AC Conversion:</i>	True-RMS, AC Coupled; Crest Factor 1:1 through 5:1
<i>Input Impedance:</i>	10M Ω shunted by <100pF
<i>Overload Protection:</i>	1500VDC or 1000VAC rms; 6kV transient (10 μ s)

AC & DC Current

<i>AC & DC Ranges:</i>	10mA, 40mA, 10A
<i>DC Accuracy:</i>	±0.75% rdg; ±5 dgt
<i>AC Accuracy:</i>	±1.75% rdg; ±5 dgt (45Hz-1kHz)
<i>AC Conversion:</i>	True-RMS, AC Coupled; Crest Factor 1:1 through 5:1
<i>MAX Voltage Burden:</i>	20mV/mA (mA ranges), 30mV/A (Amp range)
<i>Overload Protection:</i>	40mA input: 0.25A/500V fuse, 10kA interrupt rating 10A input: 15A/600V fuse, 100kA

Resistance

<i>Ranges:</i>	1k, 10k, 100k, 1M, 10M, 40M Ω
<i>Accuracy:</i>	1k-1M Ω ranges ±0.5% rdg, ±1 dgt 10M Ω range ±1.0% rdg, ±2dgt 40M Ω range ±1.5% rdg, ±2dgt
<i>Overload Protection:</i>	500VDC or AC RMS
<i>Open Circuit Voltage:</i>	1.3V typical, 3.0V in 1k Ω range

Safety Tester

	24V, 50V, 120V, 240V, 480V
<i>MAX input voltage:</i>	600V for 60 seconds

Continuity Test

Constant tone, 25 Ω -75 Ω threshold

Diode Test

1.5mA/3.0VDC typical

Agency Approvals, Ratings, Testing

EN61010-1 Cat. III, 1500VDC/1000VAC;
CE IP67: MIL-PRF-28800F, class 2 drip-proof

Battery Type/Life

9V, 450 hours w/30 minute auto-off