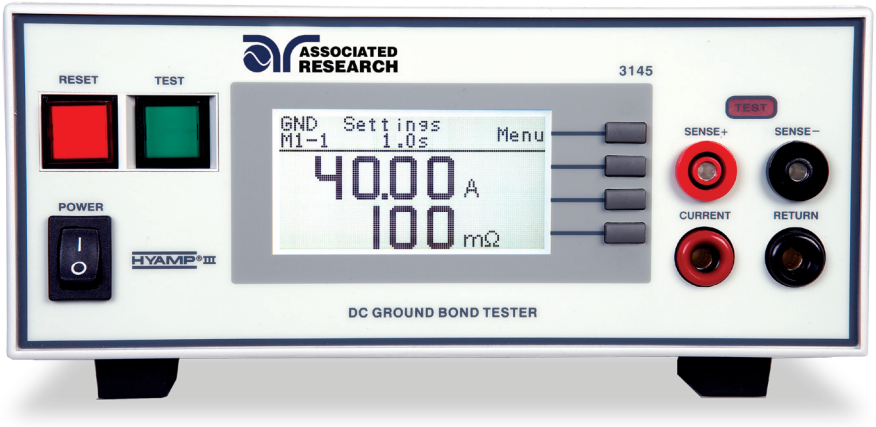
HYAMP® III

THE INDUSTRY LEADING PRODUCTION LINE GROUND BOND INSTRUMENT

3 year Warranty

Our HYAMP® III Series of manual Ground Bond instruments verifies the integrity of your product's ground circuitry in a convenient benchtop design. Choose from 4 different models with varying output current capabilities in compliance with international standards on the production line or in the lab. Choose to operate the HYAMP® III from our intuitive user interface or utilize the PLC I/O. Accurate 4-wire measurement and milliohm offset capability ensure your test results are accurate. Use the HYAMP® III stand-alone or interconnect with a Hypot® III or HypotULTRA® to form a complete safety compliance test system.



AVAILABLE INTERFACES

RS-232
(3130 Option Only)

SAFETY & PRODUCTIVITY FEATURES

Remote Safety Interlock
Easily disable HV output

PLC Remote
Basic PLC relay control

VeriCHEK®
Includes preset verification tests

Cal-Alert®
Tracks and alerts for calibration

Interconnection
Interconnect with Hypot® III to form a complete test system

Accredited Cal
Accredited calibration options available

Find the Right Model that Fits Your Testing Needs

	30A Ground Bond	40A Ground Bond	60A Ground Bond
3130	•		
3140		•	
3145		DC Current	
3160			•

INPUT SPECIFICATIONS

Voltage Model 3145 Only:	115/230 VAC ± 10%, user selectable 100-120 / 200-240 VAC ± 10%, auto-detection
Frequency	50/60 Hz ± 5%
Fuse - 3130	6.3 A, Slow Blow 250 VAC
Fuse - 3140	10 A, Slow Blow 250 VAC
Fuse - 3145	10 A, Slow Blow 250 VAC
Fuse - 3160	15 A, Slow Blow 250 VAC

GROUND BOND TEST MODE

Output Rating	Current 3130:	1.00 - 30.00 AAC
	Voltage 3130:	6 VAC, fixed
	Current 3140:	1.00 - 40.00 AAC
	Voltage 3140:	8 VAC, fixed
	Current 3145:	1.00 - 40.00 Amps DC
	Voltage 3145:	8 Volts DC, maximum
	Current 3160:	1.00 - 60.00 AAC
	Voltage 3160:	9 VAC, fixed
Output Frequency 3130/3140/3160	Range: 50/60 Hz, User Selectable	
Dwell Time Setting	Range:	0 and 0.5 - 999.9 secs 0 for continuous running
	Resolution:	0.1 sec
	Accuracy:	± (0.1% of setting + 0.05 secs)
Maximum & Minimum Limits	Range 3130:	0 - 120 mΩ for 1 - 30.00 A 0 - 510 mΩ for 1 - 10.00 A
	Accuracy 3130:	± (2% of setting + 2 mΩ)
	Range 3140:	0 - 150 mΩ for 30.01 - 40.00 A 0 - 200 mΩ for 10.01 - 30.00 A 0 - 600 mΩ for 1.00 - 10.00 A
	Accuracy:	Same as Ohmmeter Display
	Range 3145:	0 – 150 mΩ for 30.01 – 40.00 A 0 – 200 mΩ for 10.01 – 30.00 A 0 – 600 mΩ for 1.00 – 10.00 A
	Accuracy:	Same as Ohmmeter Display
	Range 3160:	0 - 150 mΩ for 30.01 - 60.00 A 0 - 300 mΩ for 15.01 - 30.00 A 0 - 600 mΩ for 1.00 - 15.00 A
	Accuracy 3160:	Same as Ohmmeter Display
Offset Capability	Range:	0 - 100 mΩ
	Resolution:	1 mΩ
	Accuracy:	± (2% of setting + 2 mΩ)
Current Display 3130	Range:	0.00 - 30.00 A
	Resolution:	0.01 A / step
	Accuracy:	± (3% of reading + 0.03 A)
Current Display 3140	Range:	0.00 - 40.00 A
	Resolution:	0.01 A
	Accuracy:	± (3% of reading + 0.03 A)
Current Display 3145	Range:	0.00 - 40.00 A
	Resolution:	0.01 A
	Accuracy:	± (3% of reading + 0.03 A)
Current Display 3160	Range:	0.00 - 60.00 A
	Resolution:	0.01 A
	Accuracy:	± (3% of reading + 0.03 A)

GROUND BOND TEST MODE (CONTINUED)

Ohmmeter Display 3130	Range:	0 - 510 mΩ
	Resolution:	1 mΩ
	Accuracy:	± (2% of reading + 2 mΩ)
Ohmmeter Display 3140	Range:	0 - 150 mΩ for 30.01 - 40.00 A 0 - 200 mΩ for 10.01 - 30.00 A 0 - 600 mΩ for 6.00 - 10.00 A
	Resolution:	1 mΩ
	Accuracy:	± (2% of reading + 2 mΩ)
	Range:	0 - 600 mΩ for 1.00 - 5.99 A
	Resolution:	1 mΩ
	Accuracy:	± (3% of reading + 3 mΩ)
Ohmmeter Display 3145	Range:	0 - 150 mΩ for 30.01 - 40.00 A 0 - 200 mΩ for 10.01 - 30.00 A 0 - 600 mΩ for 6.00 - 10.00 A
	Resolution:	1 mΩ
	Accuracy:	± (2% of reading + 2 counts)
	Range:	0 - 600 mΩ for 1.00 - 5.99 A
	Resolution:	1 mΩ
	Accuracy:	± (3% of reading + 3 mΩ)
Ohmmeter Display 3160	Range:	0 - 150 mΩ for 30.01 - 60.00 A 0 - 300 mΩ for 15.01 - 30.00 A 0 - 600 mΩ for 6.00 - 15.00 A
	Resolution:	1 mΩ
	Accuracy:	± (2% of reading + 2 mΩ)
	Range:	0 - 600 mΩ for 1.00 - 5.99 A
	Resolution:	1 mΩ
	Accuracy:	± (3% of reading + 3 mΩ)
Timer Display	Range:	0.0 - 999.9 secs
	Resolution:	0.1 secs
	Accuracy:	± (0.1% of reading + 0.05 secs)

GENERAL SPECIFICATIONS

Mechanical	Bench or rack mount with tilt up feet.
Dimensions 3130 (W x H x D)	8.5 x 4.0 x 15.5 in. (216 x 103 x 390 mm) includes feet
Dimensions 3140 (W x H x D)	8.5 x 4.0 x 16.9 in. (216 x 103 x 430 mm) includes feet
Dimensions 3145 (W x H x D)	8.5 x 3.5 x 15.0 in. (216 x 89 x 370 mm) includes feet
Dimensions 3160 (W x H x D)	16.9 x 5.1 x 15.7 in. (430 x 130 x 400 mm) includes feet
Weight 3130	19.15 lbs (8.7 kg)
Weight 3140	30.9 lbs (14 kg)
Weight 3145	11.55 lbs (5.23 kg)
Weight 3160	49.40 lbs (22.40 kg)
Remote Control & Signal Output	The following input and output signals are provided through two 9 pin D type connectors: 1. Remote control: Test, Reset, Interlock, and Withstand Processing 2. Remote recall of memory program #1, #2, and #3 3. Outputs: Pass, Fail, Test-in-process, Start Out and Reset Out
Program Memory	10 Memories, 3 steps per memory
Interface	Optional: External RS-232 (Model 3130 only)

Why We Use Counts

Associated Research publishes some specifications using "counts" which allows us to provide a better indication of the instrument's capabilities across measurement ranges. A count refers to the lowest resolution of the display for a given measurement range. For example, if the resolution for voltage is 1V then 2 counts=2V.

Specifications subject to change without notice.