

HYAMP® III

THE INDUSTRY LEADING
PRODUCTION LINE
GROUND BOND INSTRUMENT

SCAN FOR
QUICK
START VIDEO



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

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



Ground
Bond



Ground
Bond



Ground
Bond

3130

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3140

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3145

DC Current

3160

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INPUT SPECIFICATIONS

Voltage	115/230 VAC \pm 10%, user selectable
Model 3145 Only:	100-120 / 200-240 VAC \pm 10%, auto-detection
Frequency	50/60 Hz \pm 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: \pm (0.1% of setting + 0.05 secs)
Maximum & Minimum Limits	Range 3130: 0 - 120 m Ω for 1 - 30.00 A 0 - 510 m Ω for 1 - 10.00 A Accuracy 3130: \pm (2% of setting + 2 m Ω) Range 3140: 0 - 150 m Ω for 30.01 - 40.00 A 0 - 200 m Ω for 10.01 - 30.00 A 0 - 600 m Ω for 1.00 - 10.00 A Accuracy: Same as Ohmmeter Display Range 3145: 0 - 150 m Ω for 30.01 - 40.00 A 0 - 200 m Ω for 10.01 - 30.00 A 0 - 600 m Ω for 1.00 - 10.00 A Accuracy: Same as Ohmmeter Display Range 3160: 0 - 150 m Ω for 30.01 - 60.00 A 0 - 300 m Ω for 15.01 - 30.00 A 0 - 600 m Ω for 1.00 - 15.00 A Accuracy 3160: Same as Ohmmeter Display
Offset Capability	Range: 0 - 100 m Ω Resolution: 1 m Ω Accuracy: \pm (2% of setting + 2 m Ω)
Current Display 3130	Range: 0.00 - 30.00 A Resolution: 0.01 A / step Accuracy: \pm (3% of reading + 0.03 A)
Current Display 3140	Range: 0.00 - 40.00 A Resolution: 0.01 A Accuracy: \pm (3% of reading + 0.03 A)
Current Display 3145	Range: 0.00 - 40.00 A Resolution: 0.01 A Accuracy: \pm (3% of reading + 0.03 A)
Current Display 3160	Range: 0.00 - 60.00 A Resolution: 0.01 A Accuracy: \pm (3% of reading + 0.03 A)

GROUND BOND TEST MODE (CONTINUED)

Ohmmeter Display 3130	Range: 0 - 510 m Ω Resolution: 1 m Ω Accuracy: \pm (2% of reading + 2 m Ω)
Ohmmeter Display 3140	Range: 0 - 150 m Ω for 30.01 - 40.00 A 0 - 200 m Ω for 10.01 - 30.00 A 0 - 600 m Ω for 6.00 - 10.00 A Resolution: 1 m Ω Accuracy: \pm (2% of reading + 2 m Ω)
Ohmmeter Display 3145	Range: 0 - 600 m Ω for 1.00 - 5.99 A Resolution: 1 m Ω Accuracy: \pm (3% of reading + 3 m Ω)
Ohmmeter Display 3160	Range: 0 - 150 m Ω for 30.01 - 40.00 A 0 - 200 m Ω for 10.01 - 30.00 A 0 - 600 m Ω for 6.00 - 10.00 A Resolution: 1 m Ω Accuracy: \pm (2% of reading + 2 counts) Range: 0 - 600 m Ω for 1.00 - 5.99 A Resolution: 1 m Ω Accuracy: \pm (3% of reading + 3 m Ω)
Timer Display	Range: 0.0 - 999.9 secs Resolution: 0.1 secs Accuracy: \pm (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	RS-232 Standard for Model 3145 Optional external RS-232 interface for Model 3130

Why We Use Counts

Associated Research publishes some specifications using "counts" which allows us to provide a better indication of the tester'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.