

HYAMP[®] III

U.S. Patents: 6,744,259, 6,515,484.



Production Line Ground Bond Testers

Designed to thoroughly check the integrity of a safety ground circuit

Model 3130

30 Amp Ground Bond Tester

Model 3140

40 Amp Ground Bond Tester

Model 3160

60 Amp Ground Bond Tester

Features and Benefits

- Patented VERI-CHEK® feature prompts users through steps to validate the instrument's operation
- Graphic LCD provides intuitive menu system to simplify the entire testing process from set-up to results
- Patented CAL-ALERT® feature alerts the operator that the tester is due for re-calibration
- PLC Remote Control allows operators to remotely control the Ground Bond tester

- 10 Memories with 3 Steps per memory for storing and recalling test parameters
- Interconnects with an Associated Research Hipot tester to form a complete test system
- 4 wire measurement and milliohm offset for accurate Ground Bond test results
- Electronic Dwell timer for more consistent and reliable testing







At Associated Research, Safety Compliance Testing Is Our Only Focus.

Input Specifications

Voltage 115/230 VAC ± 10%, user selectable

Frequency 50/60 Hz + 5%

Fuse - 3130 6.3 A. slo-blow 250 VAC 10 A slo-blow 250 VAC Fuse - 3140 15 A. slo-blow 250 VAC Fuse - 3130

Ground Bond Test Mode

Output Rating Current 3130: 1.00 - 30.00 A AC Voltage 3130: 6 V AC, fixed

Current 3140: 1.00 - 40.00 A AC Voltage 3140: 8 V AC, fixed Current 3160: 1.00 - 60.00 A AC Voltage 3160: 9 V AC, fixed Resolution: 0.01 A

Regulation: ± (2% of setting + 0.02 A)

Output Frequency Range: 50 / 60 HZ, User Selectable

Dwell Time Setting Range: 0 and 0.5 - 999.9 secs

O 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: $0 - 150 \text{ m}\Omega$ 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 3140: \pm (3% of setting + 3 m Ω)

Range 3160: $0 - 150 \text{ m}\Omega$ for 30.01 - 60.00 A0 - $300~\text{m}\Omega$ for 15.01 - 30.00~A

0 - 600 m Ω for 6.00 - 15.00 A

Accuracy: \pm (3% of setting + 3 m Ω)

Offset Capability Range: $0 - 100 \text{ m}\Omega$

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: ± (2% of reading + 0.02 A)

Current Display 3140 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)

Ohmmeter Display 3130

Range: $0 - 510 \text{ m}\Omega$ Resolution: $1 \text{ m}\Omega$ / step

Accuracy: ± (2% of reading + 0.02 A)

Ohmmeter Display 3140

Range: $0 - 150 \text{ m}\Omega$ for 30.01 - 40.00 A0 - $200~\text{m}\Omega$ for 10.01 - 30.00~A0 - $600~\text{m}\Omega$ for 6.00 - 10.00~A

Resolution: $1 \text{ m}\Omega$

Accuracy: \pm (2% of reading + 2 m Ω)

Range: 0 - $600~\text{m}\Omega$ for 1.00 - 5.99 A

Resolution: $1 \text{ m}\Omega$

Accuracy: \pm (3% of reading + 3 m Ω)

Ground Bond Test Mode (Continued)

Ohmmeter Display 3160 Range: $0 - 150 \text{ m}\Omega$ for 30.01 - 60.00 A

0 - 300 m Ω for 15.01 - 30.00 A 0 - $600~\text{m}\Omega$ for 6.00 - 15.00~A

Resolution: 1 m Ω

Accuracy: \pm (2% of reading + 2 m Ω) Range: 0 - 600 m Ω for 1.00 - 5.99 A Resolution: $1 \text{ m}\Omega$

Accuracy: \pm (3% of reading + 3 m Ω)

Range: 0.0 - 999.9 secs Resolution: 0.1 secs

Accuracy: \pm (0.1% of reading + 0.05 secs)

General Specifications

Remote Control & Signal Output

Timer Display

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.

Security Key Lock capability to avoid unauthorized access to

all test parameters and memory locations.

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 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 kgs)

Weight 3140 30.9 lbs (14 kgs)

Weight 3160 49.40 lbs (22.40 kgs)

Traceable to National Institute of Standards & Calibration

Technology (NIST). Calibration controlled by software. Adjustments are made through front panel keypad in a restricted access calibration mode. Calibration information stored in non-volatile memory.

Available Accessories

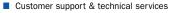
Probe (38084) **Probe** (38538)

Fixed tip 4-wire Ground Bond probe for use with the 3130. Fixed tip 4-wire Ground Bond probe for use with the 3140.

Specifications subject to change without notice.







- 5-Year extended warranty*
- 24-Hour turn-around on calibrations
- Industry seminars, expert training & education programs

Local sales offices throughout the world



































