



Production Line Ground Bond Testers

HYAMP® III is a microprocessor controlled Ground Bond tester with an enhanced graphic LCD. It features three testers: the 3130 with 30 Amp output, the 3140 with 40 Amp output and the 3160 with 60 Amp output. Model 3130 also has an optional external RS-232 interface. HYAMP III can be interconnected with Hypot III to form a complete test system.

Model 3130 - 30 Amp Ground Bond Tester Model 3140 - 40 Amp Ground Bond Tester Model 3160 - 60 Amp Ground Bond Tester

Features and Benefits

- External RS-232 interface available for entry-level automation (Model 3130)
- 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
- Adjustable output current and milliohm trip ranges to meet all safety agency specifications for Ground Bond test requirements



Safety agency listed.

.

0

HYAMP[®] III

•

	445 1000 114		Ground Bond Tes		
Voltage	115/230 VA	$C \pm 10\%$, user selectable	Ohmmeter Display 3140	0	0 - 150 mΩ for 30.01 - 40.00 A
-		-0/			0 - 200 mΩ for 10.01 - 30.00 A
Frequency	50/60 Hz ± 5%				0 - 600 mΩ for 6.00 - 10.00 A
		050 \ // 0			on: 1 mΩ
Fuse - 3130	6.3 A, slo-blow 250 VAC				$\pm (2\% \text{ of reading} + 2 \text{ m}\Omega)$
					0 - 600 mΩ for 1.00 - 5.99 A
Fuse - 3140	10 A, slo-blow 250 VAC				on: 1 mΩ
				Accuracy:	: \pm (3% of reading + 3 m Ω)
Fuse - 3160	15 A, slo-blo	w 250 VAC			
			Ohmmeter Display 3160	0	0 - 150 mΩ for 30.01 - 60.00 A
Ground Bond Te	<u>st Mode</u>		_	(0 - 300 mΩ for 15.01 - 30.00 A
Output Rating	Current 3130): 1.00 - 30.00 A AC		(0 - 600 mΩ for 6.00 - 15.00 A
	Voltage 3130	0: 6 V AC, fixed		Resolutio	on: 1 mΩ
	Current 3140: 1.00 - 40.00 A AC			Accuracy:	: $\pm (2\% \text{ of reading} + 2 \text{ m}\Omega)$
	Voltage 3140: 8 V AC, fixed			Range: (0 - 600 mΩ for 1.00 - 5.99 A
				Resolutio	on: 1 mΩ
	Current 3160: 1.00 - 60.00 A AC			Accuracy:	: \pm (3% of reading + 3 m Ω)
	Voltage 3160): 9 V AC, fixed			
	Resolution: 0.01 A		Timer Display	Range: (0.0 - 999.9 secs
	Regulation:	± (2% of setting + 0.02 A)		-	on: 0.1 secs
				Accuracy:	: ± (0.1% of reading + 0.05 secs)
Output Frequency	Range: 50 /	60 HZ, User Selectable		,	
			General Specific	ations	
Dwell Time Setting	Range: 0 an	d 0.5 - 999.9 secs	Mechanical		rack mount with tilt up feet.
	0 for	continuous running			
	Resolution:	0.1 sec	Dimensions 3130	(W x H x [D) 8.5 x 4.0 x 15.5 in. (216 x 103 x 390 m
	Accuracy: ±	(0.1% of setting + 0.05 secs)		includes	
Maximum & Minimum	Range 3130:	0 - 120 mΩ for 1 - 30.00 A	Dimensions 3140	(W x H x I	D) 8.5 x 4.0 x 16.9 in. (216 x 103 x 430 m
Limits		0 - 510 mΩ for 1 - 10.00 A	Dimensions 3140	includes	
	Accuracy 313	30: \pm (2% of setting + 2 m Ω)		includes	leet
		0 - 150 mΩ for 30.01 - 40.00 A	Dimensions 3160) 16 0 x 5 1 x 15 7 in (420 x 120 x 400 mm
	0	0 - 200 m Ω for 10.01 - 30.00 A	Dimensions 3100	includes	0) 16.9 x 5.1 x 15.7 in. (430 x 130 x 400 mn
		0 - 600 mΩ for 1.00 - 10.00 A		includes	leet
	Accuracy 314	$10: \pm (3\% \text{ of setting} + 3 \text{ m}\Omega)$	Weight 24.20	10 15 16-	
	-	0 - 150 mΩ for 30.01 - 60.00 A	Weight 3130	19.15 105	s (8.7 kgs)
	Hunge eree.	0 - 300 mΩ for 15.01 - 30.00 A			
		0 - 600 mΩ for 1.00 - 15.00 A	Weight 3140	30.9 lbs	(14 kgs)
	Accuracy 316	$50: \pm (3\% \text{ of setting} + 3 \text{ m}\Omega)$			
	Accuracy SIC	$50. \pm (5\% \text{ of setting} + 5 \text{ msz})$	Weight 3160	49.40 lbs	s (22.40 kgs)
Offeet Conchility	Dongo	0.100 m0			
Offset Capability	Range:	0 - 100 mΩ	Remote Control &	The follow	wing input and output signals are provided
	Resolution:	1 mΩ	Signal Output	through t	wo 9 pin D type connectors:
	Accuracy:	\pm (2% of setting + 2 m Ω)		1. Remot	e control: Test, Reset, Interlock, and
				Withst	and Processing
Current Display 3130	-	0.00 - 30.00 A		2. Remot	e recall of memory program #1, #2, and #
	Resolution:	0.01 A / step		3. Output	ts: Pass, Fail, Test-in-process, Start Out
	Accuracy:	± (3% of reading + 0.03 A)		and Re	eset Out
Current Display 3140	Range:	0.00 - 40.00 A	Program Memory	10 Memo	pries, 3 steps per memory.
	Resolution:	0.01 A			
	Accuracy:	± (3% of reading + 0.03 A)	Interface	External I	RS-232 interface for Model 3130
Current Display 3160	Range:	0.00 - 60.00 A			
	Resolution:	0.01 A			
	Accuracy:	± (3% of reading + 0.03 A)			
		, , , , , , , , , , , , , , , , , , , ,	Constitution	to observe	without notice
Ohmmeter Display 3130	Range:	0 - 510 mΩ	Specifications subject	to change	without notice.
	-	$1 \text{ m}\Omega$ / step			
	Accuracy:	\pm (2% of reading + 2 m Ω)			

We have local sales offices throughout the world to serve you more efficiently.

To find your nearest representative visit the "Local Sales Offices" section of our web site at www.asresearch.com or call us toll-free at 1-800-858-8378

ASSOCIATED RESEARCH, INC.

13860 West Laurel Drive, Lake Forest, IL U.S.A. 60045

Tel: +1-847-367-4077 Fax: +1-847-367-4080 E-mail: info@asresearch.com

For more information visit us at www.asresearch.com or call us toll-free at 1-800-858-TEST(8378) 6