

Hocker Incorporated

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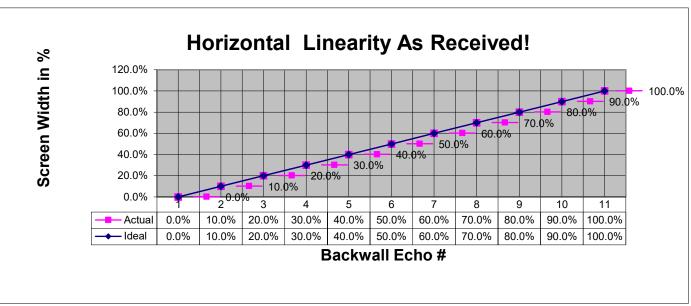
Customer PO #:	86404				
Certification #:	23-1090				
ation	Calibration Date:				

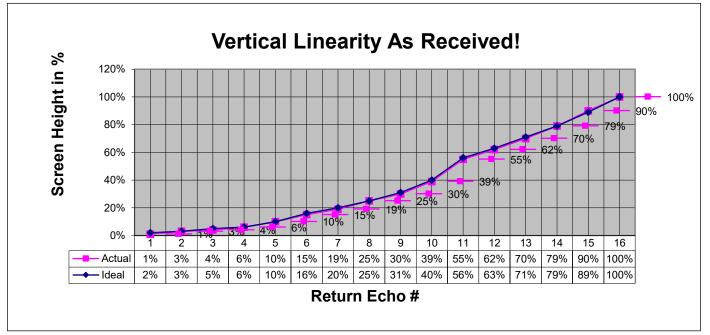
9/5/2023

ASTM E317-16 Performance Evaluation Ultrasonic Flaw Detector

F-UTFL	Rev-0	Meets ASTM E317-16 Minimum Requirements? YES						Due Date:			
Company:		P&B T	esting		Model & I		st 250S	9/5/2024			
Address:	6645 W. Tid	dwell					08750	Equipment Condition As Found:			
	Houston							FOU	New		
	Texas	Contact:	Buck Snyder			Lab Cor	nditions:	X	Good		
	77092	Phone:		,		Temp: 70°F			Poor		
	Country: USA Email:		_		Hum.%: 50%			Failed			
Performance Evaluation Equip			pment:	Serial:	NIST:	Cert. Bloc	ks C to G:	Serial:	NIST:		
Calib. I	Calib. Block A ASTM-E		317 Block	SN 03-8399 03-19698-A ASTM		ASTM E1	27 1-0300	SN 15-8035			
Calib. I	Calib. Block B ASTM		ype RA	SN 04-5671 04-25714-A ASTM E127 2-03		27 2-0300	SN 15-8036	14-20265-A			
	ucer "A"	FCHR-5050 Hi Res		SN 931/37	n/a	ASTM E127 3-0300		SN 15-8037	14-20203-A 14-21740-A		
	ucer "B"	PSLM-5050 5mhz 1/2"		SN 504/03	n/a	ASTM E127 4-0300		SN 15-8038	•		
	ucer "C"	PSLM-5050		SN 424/20	n/a	ASTM E127 5-0300		SN 15-8039			
	Attenuator	S/N: SC		NIST #:	NIST #: 1821-1022/1104681/9000-1439,1230,1336						
Hori	zontal Li	mit Line	arity		Ver	tical Lin	nit Linea	rity			
Horiz. Accuracy Limit + or - 2.0%					2.0%						
Meets A	ccuracy Re	quired?	Yes		Meets A	ccuracy Re	quired?		Yes		
Horiz. A	Horiz. Accuracy Deviation				Vert. A	ccuracy De	viation		-1.0%		
Horiz. S	creen Widt	h used?	10"	Equipment Overall Pass/ Fail Result:					Pass		
% Horiz. Screen Width											
Echo#	Actual %	Ideal	Deviation	Ideal %	Actual %	Ideal%	Actual%	Ideal%	Actual%		
1	0.0%	0.0%	0.0%	+1db	+1db steps		-2db steps -4db		Steps		
2	10.0%	10.0%	0.0%	50.0%	50.0%	50.0%	50.0%	16.0%	16.0%		
3	20.0%	20.0%	0.0%	56.0%	55.0%	40.0%	39.0%	10.0%	10.0%		
4	30.0%	30.0%	0.0%	63.0%	62.0%	31.0%	30.0%	6.0%	6.0%		
5	40.0%	40.0%	0.0%	71.0%	70.0%	25.0%	25.0%	5.0%	4.0%		
6	50.0%	50.0%	0.0%	79.0%	79.0%	20.0%	19.0%	3.0%	3.0%		
7	60.0%	60.0%	0.0%	89.0%	90.0%	16.0%	15.0%	2.0%	1.0%		
8	70.0%	70.0%	0.0%	100.0%	100.0%	10.070	10.070	2.070	110 70		
9	80.0%	80.0%	0.0%			l Deviation	-1.0%				
10	90.0%	90.0%	0.0%	Maximum Vertical Deviation -1.0%							
11	100.0%	100.0%	0.0%								
			Test Bloc	Sensitivity & Noise Test Block Number Sig. Ampl. Break Pt. Noise Lvl.							
Accuracy Of Calibrated Gain Controls			ASTM E127 1-0300		60.0%	12.0%	1.0%	Hole Size			
Ideal	Actual	Ideal	Actual	ASTM E127 2-0300		60.0%	11.0%	1.0%	1/32		
1	1	10	10	ASTM E127 3-0300		60.0%	11.0%	1.0%	3/64		
2	2	12	12	ASTM E127 4-0300		60.0%	10.0%	1.0%	1/16		
4	4	14	14	ASTM E127 5-0300		60.0%	10.0%	1.0%	5/64		
6	6	20	20								
Near Surface Resolution at 80% Far Surface		ce Resolution at 80%		Gain Control Deviation DB			0				
Depth	Break Pt.	Noise %	Depth	Break Pt.	Noise %	Max Noise Level		vel	1 0%		
0.7"	11.0%	1.0%	.01"	18.0%	1.0%	(Sensitivity & Noise Test)					
0.5"	9.0%	1.0%	.02"	17.0%	1.0%	Max Noise Level 1.0%					
0.3"	8.0%	1.0%	.03"	16.0%	1.0%	(Resolution Test)		est)	1.0 /0		

F-UTFL Rev-0 05/01/2018





Notes.

This performance evaluation was done in accordance with ASTM-E317-16 and Hocker Incorporated procedure CP-UTFL Rev 0. Test equipment and calibration blocks used to perform this evaluation are traceable to the National Institute of Standards and Technology. NIST numbers listed in this document and supporting documentation is on file. This performance evaluation is made in conformance with ANSI/NCSL 2540.3-2006 and/or ISO 10012, and with 10CFR21.

Technician Signature: Roger Kimmons

Technician Performing Evaluation: Roger Kimmons Date: 9/5/2023

Approval Signature: Derrick Schumann

Approved By: Derrick Schumann

An ISO 9001:2015 Registered Company