

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 25530 ASSET # 002291 DATE 23 Nov 97

ITEM DATA:

Manufacturer ABB Model SE 120
Description plastic Serial # 00491016
Accessories rough & worn

ACTION REQUESTED cal

CUSTODIAN D. J. D. D. D.

Turned in by: _____ Phone _____

CHARGE # 70-5108-561 Date Required _____

INSTRUMENT USED ON: DOD/NASA NUCLEAR GLP SPPE ISO
 OTHER _____

COPY OF CALIBRATION CERTIFICATE Yes No

NEW WORK Yes No If yes, an evaluation shall be made to verify capabilities.

By _____ Date _____

- CONDITION RECEIVED:
- _____ (F) Out of tolerance, repaired to specifications
 - _____ (G) In tolerance, minor adjustments/repairs made
 - (J) In tolerance, no adjustments/repairs
 - _____ (K) Out of tolerance, adjusted to specifications
 - _____ (S) Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) _____

CAL ENVIRONMENT:
Temperature 27 Humidity 49 %RH

CALIBRATED/REPAIRED:
By _____ Cal Procedure 350.0062.03
Date 12 Accuracy _____
Cal Interval _____ Reliability Code: _____
Next Cal due _____ Cal Time 3 Repair Time _____
Standards used (Asset#) 168

DATE COMPLETED _____
DATE PICKED UP 12/4/97 PICKED UP BY [Signature]

25530

Alpha

AS 2291
2 June 97

NO 25530

Lane^{2V} Upper

1.45%₁₀

492.7507.25	500	250	104999	500.00	250.00	2	MV	500	2.5000	200.00
197.1-202.9	200	100	1999	200.00	100.00					
9855-10.145/00			10998	100.00	25.00					100.00
49.275-50.145/00				50.00	50.00				0.5000	25.00
19.71-20.29	20	10	20000	10.00	200.00				100.00	10.00
9.855-10.145/0										20.00
4.9275-5.0725	5		00999	10.00					100.00	10.00
1.971-2.029	2		00499	2.00					5.000	5.00
1.9855-1.0145	1		2.00	2.00					2.000	2.00
			1.005	10.00					1.000	1.00

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 29977 ASSET # 002291 DATE 02 June 98

ITEM DATA:

Manufacturer ABB Model SE 100
Description motor Serial # 0049616
Accessories _____

ACTION REQUESTED cal

CUSTODIAN D. W. Lovel

Turned in by: 168 Phone 6070

CHARGE # 20-140-511 Date Required _____

INSTRUMENT USED ON: (DOD/NASA) (NUCLEAR) (GLP) (SPPE) (ISO)
 OTHER _____

COPY OF CALIBRATION CERTIFICATE (Yes) (No)

NEW WORK Yes No If yes, an evaluation shall be made to verify capabilities.

By 168 Date 04/09/98

Work involves proprietary/confidential information or equipment (Yes) (No)

CONDITION RECEIVED: _____ (F) Out of tolerance, repaired to specifications
_____ (G) In tolerance, minor adjustments/repairs made
 (J) In tolerance, no adjustments/repairs
_____ (K) Out of tolerance, adjusted to specifications
_____ (S) Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) _____

CAL ENVIRONMENT: Temperature 73 °F Humidity 48 %RH

CALIBRATED/REPAIRED:
By R Hughes Cal Procedure MFR manual
Date 5 Jun 98 Accuracy MFR
Cal Interval 12 MOS Reliability Code: 5
Next Cal due 5 Jun 99 Cal Time 2.5 Repair Time _____
Standards used (Asset#) 168

DATE COMPLETED 5 Jun 99
DATE PICKED UP 6/16/98 PICKED UP BY [Signature]

29977

CALIBRATION CHECK FORM

Date Calibrated 5 JUNE 98 Work Order 29977
 Technician R. Hughes
 Unit Under Test Plotter
 Manufacturer ABBON Model SE 120 SN 0049616 ASN 2291

Rev. _____ Page 1 of 4

STEP	FUNCTION OR RANGE	APPLIED	TOLERANCE		MEASURED VALUES		P/F
			MIN	MAX	AS FOUND	RELEASED	
	Left Channel						
1	Deflection (13% tolerance)			mVDC			
	1mV	0.10mV	.097	.103	.103		P
		0.5mV	.495	.505	.505		P
		1.0mV	.9925	1.0075	1.007		P
	1mV	0.2mV	.194	.206	.206		P
		1.0mV	.97	1.01	1.006		P
		2.0mV	1.985	2.015	2.010		P
	5mV	0.5mV	.485	.515	.505		P
		2.5mV	2.475	2.525	2.495		P
		5.0mV	4.9625	5.0375	5.0		P
	10mV	1mV	0.97	1.03	0.99		P
		5mV	4.95	5.05	4.97		P
		10mV	9.925	10.075	9.970		P
	20mV	2mV	1.94	2.06	1.975		P
		10mV	9.9	10.1	9.970		P
		20mV	19.85	20.15	19.98		P
	50mV	5mV	4.85	5.15	4.94		P
		25mV	24.75	25.25	24.92		F
		50mV	49.625	50.375	49.92		P
	100mV	10mV	9.7	10.3	9.92		P
		50mV	49.5	50.5	49.70		P
		100mV	99.25	100.75	99.80		P
	200mV	20mV	19.4	20.6	19.5		P
		100mV	99	101	99.1		P
		200mV	198.5	201.5	199.3		

CALIBRATION CHECK FORM

Date Calibrated _____ Work Order _____

Technician _____

Unit Under Test Christ F. Recorder/Meter

Manufacturer ABBELON Model SE 120 SN _____

Rev _____ Chg _____
Page 1 of 4

ASN _____

STEP	FUNCTION OR RANGE	APPLIED	TOLERANCE		MEASURED VALUES		P/P
			MIN	MAX	AS FOUND	RELEASED	
	500mV	50mV	mVDC 48.5 - 51.5		49.3		P
		250mV	247.5 - 252.5		249.0		P
		500mV	496.25 - 503.75		498.0		P
			VDC				
	1V	0.1V	.097 - .103		0.98		P
		0.5V	0.495 - 0.505		0.496		P
		1V	0.9925 - 1.0075		0.9948		
	2V	0.2V	0.194 - 0.206		0.196		P
		1V	0.99 - 1.01		0.991		P
		2V	1.985 - 2.015		1.99		P
	5V	0.5V	0.485 - 0.515		0.498		P
		2.5V	2.475 - 2.525		2.495		P
		5V	4.9625 - 5.0375		4.99		P
	10V	1V	0.99 - 1.03		0.98		P
		5V	4.95 - 5.05		4.98		P
		10V	9.925 - 10.075		9.96		P
	20V	2V	1.94 - 2.06		1.95		P
		10V	9.9 - 10.1		9.95		P
		20V	19.85 - 20.15		19.96		P
	50V	5V	4.85 - 5.15		4.9		P
		25V	24.75 - 25.25		24.9		P
		50V	49.675 - 50.325		49.9		P
	100V	10V	9.7 - 10.3		9.87		P
		50V	49.5 - 50.5		49.6		P
		100V	99.25 - 100.75		99.8		P
	200V	20V	19.4 - 20.6		19.6		P
		100V	99 - 101		99.6		P
		200V	198.5 - 201.5		199.6		P

CALIBRATION CHECK FORM

Date Calibrated 5/11/98 Work Order 29977
 Technician TC/12/1
 Unit Under Test P1072
 Manufacturer Adreon Model DE 120 SN 0049616 ASN 2891

Rev 5 of 1
 Page 5 of 1

STEP	FUNCTION OR RANGE	APPLIED	TOLERANCE		MEASURED VALUES		P/P
			MIN	MAX	AS FOUND	RELEASED	
1	Right Channel Deflection (Basic all channels)	VDC	VDC				
	1mV	0.10mV	.097	.103			
		0.5mV	.485	.505			
		1.0mV	.9925	1.0075			
	2mV	0.2mV	1.94	2.06			
		1.0mV	.99	1.01	0.99		P
		2.0mV	1.985	2.015	1.987		P
	5mV	0.5mV	.485	.515	0.485		P
		2.5mV	2.475	2.525	24.85		P
		5.0mV	4.9625	5.0375	4.975		P
	10mV	1mV	0.97	1.03	0.98		P
		5mV	4.95	5.05	4.99		P
		10mV	9.925	10.075	9.98		P
	20mV	2mV	1.94	2.06	1.98		P
		10mV	9.9	10.1	9.98		P
		20mV	19.85	20.15	19.93		P
	50mV	5mV	4.85	5.15	4.9		P
		25mV	24.75	25.25	24.97		P
		50mV	49.625	50.375	49.9		P
	100mV	10mV	9.7	10.3	9.9		P
		50mV	49.5	50.5	49.97		P
		100mV	99.25	100.75	99.70		P
	200mV	20mV	19.4	20.6	19.9		P
		100mV	99	101	99.5		P
		200mV	198.5	201.5	199.95		P

CALIBRATION CHECK FORM

Date Calibrated _____ Work Order _____
 Technician _____
 Unit Under Test Chest Recorder / Plotter
 Manufacturer ABBEN Model SE 120 SN _____ ASN _____

Rev _____ Chg _____
 Page 4 of 4

STEP	FUNCTION OR RANGE <i>Right channel</i>	APPLIED	TOLERANCE		MEASURED VALUES		P/F
			MIN	MAX	AS FOUND	RELEASED	
	500mV	50mV	mVDC 48.5 - 51.5		49.8		P
		250mV	247.5 - 252.5		249.9		P
		500mV	496.25 - 503.75		499.9		P
	1V		VDC				
		0.1V	0.997 - 1.003		0.999		P
		0.5V	0.495 - 0.505		0.5		P
	2V	1V	0.9925 - 1.0075		1.0		P
		0.2V	0.194 - 0.206		0.2		P
		1V	0.99 - 1.01		1.0		P
	5V	2V	1.985 - 2.015		2.0		P
		0.5V	0.485 - 0.515		0.492		P
		2.5V	2.475 - 2.525		2.493		P
	10V	5V	4.9625 - 5.0375		4.98		P
		1V	0.97 - 1.03		0.98		P
		5V	4.95 - 5.05		4.99		P
	20V	10V	9.925 - 10.075		9.97		P
		2V	1.94 - 2.06		1.98		P
		10V	9.9 - 10.1		9.96		P
	50V	20V	19.85 - 20.15		19.96		P
		5V	4.85 - 5.15		4.96		P
		25V	24.75 - 25.25		24.98		P
	100V	50V	49.625 - 50.375		49.98		P
		10V	9.7 - 10.3		9.95		P
		50V	49.5 - 50.5		49.99		P
	200V	100V	99.25 - 100.75		99.99		P
		20V	19.4 - 20.6		19.95		P
		100V	99 - 101		99.95		P
		200V	198.5 - 201.5		199.9		P

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 34810 ASSET # 002291 DATE 07 June 99

ITEM DATA:

Manufacturer ABB Model SE 120
Description Plotter Serial # 0049616
Accessories _____

ACTION REQUESTED cal

CUSTODIAN Div. 20, Darrell Dunn

Turned in by: _____ Phone 6090

CHARGE # 20-0H Date Required _____

INSTRUMENT USED ON: (DOD/NASA) (NUCLEAR) (GLP) (SPPE) (ISO)
 OTHER _____

COPY OF CALIBRATION CERTIFICATE (Yes) (No)

NEW WORK Yes No If yes, an evaluation shall be made to verify capabilities.

By [Signature] Date 07 June 99

Work involves proprietary/confidential information or equipment (Yes) (No)

- CONDITION RECEIVED:
- (F) Out of tolerance, repaired to specifications
 - (G) In tolerance, minor adjustments/repairs made
 - (J) In tolerance, no adjustments/repairs
 - (K) Out of tolerance, adjusted to specifications
 - (S) Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) _____

CAL ENVIRONMENT:
Temperature 75 °F Humidity 42 %RH

CALIBRATED/REPAIRED:
By [Signature] Cal Procedure CL-75 June 99
Date 15 June 99 Accuracy _____
Cal Interval 12 Reliability Code: _____
Next Cal due _____ Cal Time 4 Repair Time _____
Standards used (Asset#) 6413

DATE COMPLETED 15 June 99
DATE PICKED UP 6/22/99 PICKED UP BY [Signature]

34810

CALIBRATION CHECK FORM

Date Calibrated 15 June 99 Work Order 34810 Cal By [Signature]

Procedure No./Date CL-75 June 99 Unit Under Test RECORDER

Mfg. ABB Model SE120 SN 0049616 AN 2291

STEP	FUNCTION OR RANGE	APPLIED	TOLERANCE		MEASURED VALUES		P/F
			MIN	MAX	AS FOUND	RELEASED	
	<i>L level</i>						
	1 mV	1 mV			• 9958 mV		P
	20 mV	19.000			19.920 mV		P
	Var - CCW	40% of F.S.			100 will adj.		P
	Cal. zero suppression	(-100%) Returns to zero					P
	UPPER RANGE 1 mV	- FOScale -			09928 mV		P
	20 mV	19.998			210.000 mV		P
	Cal zero suppression						P
	Deadband	lower pen			.2 di		P
		upper pen			.1 di		P
	Chart speed	30 cm/hr	29.994	30.006 cm/hr	3 cm/min		P
		1 cm/min		for 1 hr = 3 cm/hr	1 cm/min		P
	Deadband =	3% F.S. = .3 mV (.3 di)					P

WORK ORDER 39645

Date Received 7/6/00

Asset No. 002291 Manufacturer ABBEON Model SE 120
Description PLOTTER Serial Number 0049616
Accessory Received/Required NONE
Div/CC ID NONE Accessory to Asset No. N/A
Div/CC DIV20 Location B57 Custodian DARRELL DUNN Tel. 6090
Charge/Project No. 20.00751.006 Proprietary/Confidential N Date Required ROUTINE
Work Requested CALIBRATION
Receiving Inspection OK
Delivered By DARRELL DUNN Tel. 6090

WORK HISTORY

Date	Start Time	Stop Time	Notes
7 July 00			
1 AUG 00	15 hr	Cal	
2 AUG 00	4 hr	Cal	

PARTS

Part Name	Part Number	Cost	Failure Description

39645

WORK SUMMARY

Failure Description _____
Repair Action _____
Cal Procedure CL 75 6/99 Temp 74 F Hum 38 %
Tech [Signature] Cal Hrs. 4.5 Repair Hrs. _____ Part Cost _____
Action Taken Cal Intalls
Standards Used 4164
Date Cal 2 AUG 00 Int. 12 Mo. Date Due 2 AUG 01 Reliability Code 7
Date Picked Up 8/8/2000 Picked Up By [Signature]

Southwest Research Institute
Calibration Laboratory

Work Order	39645	Mfr.	Abb	Tech	<i>aplw</i>
Asset No.	2291	Model	SE 120	Procedure	CL-75, 6/99
Serial No.	0049616	Type	Strip Chart Recorder	Cal Date	L NUG 2000

Calibration As Found/As Released Data

Parameter	Standard Reading	UUT As Found	Tolerance	UUT As Released
5.2 Time Unit				
60cm/min Range	60 cm		Pass/Fail	
30cm/min Range	30 cm		Pass/Fail	
12 cm/min Range	12 cm		Pass/Fail	
6 cm/min Range	6 cm		Pass/Fail	
3 cm/min Range	3 cm		Pass/Fail	
1 cm/min Range	1 cm		Pass/Fail	

Upper 5.3 Voltage Measuring Unit 811				
5.3.1 Calibrated zero suppression	< 0.2 % of Setting	0.1 ± 0.0	0.2 % of Setting	
Dead Band	50 mV	-2 mV	± 0.3 mV	
Setting Time	< 0.5 sec	.25	Approximately 0.5 sec	
Damping			≤ 1 %	

Input accuracy				
1 mV DC Range	1 mV	.9972	± 0.010 mV	
2 mV DC Range	2 mV	1.993	± 0.010 mV	
5 mV DC Range	5 mV	4.990	± 0.025 mV	
10 mV DC Range	10 mV	9.981	± 0.050 mV	
20 mV DC Range	20 mV	19.940	± 0.10 mV	
50 mV DC Range	50 mV	49.999	± 0.25 mV	
100 mV DC Range	100 mV	99.72	± 0.500 mV	
	50 mV	49.850	± 0.250 mV	
	25 mV	24.92 24.890	± 0.125 mV	
1 V DC Range	1 V	.997	± 0.005 V	
2 V DC Range	2 V	1.993	± 0.010 V	
5 V DC Range	5 V	4.987	± 0.025 V	
10 V DC Range	10 V	10.000	± 0.05 V	
20 V DC Range	20 V	19.993	± 0.10 V	
50 V DC Range	50 V	50.000	± 0.25 V	
100 V DC Range	100 V	99.89	± 0.50 V	
200 V DC Range	200 V	199.97	± 1.0 V	

Repeat on second sheet for additional 811 plug-ins

Southwest Research Institute
Calibration Laboratory

Work Order	Mfr. Abb	Tech		
Asset No.	Model SE 120	Procedure CL-75, 6/99		
Serial No.	Type Strip Chart Recorder	Cal Date		
Calibration As Found/As Released Data				
Parameter	Standard Reading	UUT As Found	Tolerance	UUT As Released
5.2 Time Unit				
60cm/min Range	60 cm	/	Pass/Fail	
30cm/min Range	30 cm		Pass/Fail	
12 cm/min Range	12 cm		Pass/Fail	
6 cm/min Range	6 cm		Pass/Fail	
3 cm/min Range	3 cm		Pass/Fail	
1 cm/min Range	1 cm		Pass/Fail	
5.3 Voltage Measuring Unit 811				
5.3.1 Calibrated zero suppression	< 0.2 % of Setting	.1	0.2 % of Setting	
Dead Band	50 mV		± 0.3 mV	
Setting Time	< 0.5 sec	Pass	Approximately 0.5 sec	
Damping			≤ 1 %	
Input accuracy				
1 mV DC Range	1 mV	99.9	± 0.010 mV	
2 mV DC Range	2 mV	1.99	± 0.010 mV	
5 mV DC Range	5 mV	2.993	± 0.025 mV	
10 mV DC Range	10 mV	9.970	± 0.050 mV	
20 mV DC Range	20 mV	19.940	± 0.10 mV	
50 mV DC Range	50 mV	49.90	± 0.25 mV	
100 mV DC Range	100 mV	99.70	± 0.500 mV	
	50 mV	49.78	± 0.250 mV	
	25 mV	24.893	± 0.125 mV	
1 V DC Range	1 V	.997	± 0.005 V	
2 V DC Range	2 V	1.993	± 0.010 V	
5 V DC Range	5 V	4.990	± 0.025 V	
10 V DC Range	10 V	9.985	± 0.05 V	
20 V DC Range	20 V	19.95	± 0.10 V	
50 V DC Range	50 V	49.95	± 0.25 V	
100 V DC Range	100 V	99.90	± 0.50 V	
200 V DC Range	200 V	199.7	± 1.0 V	
Repeat on second sheet for additional 811 plug-ins				



Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238
(210) 522-5215
Department of Quality Assurance
Calibration Laboratory

Certificate of Calibration

2 August 2000

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: ABBEON SE 120
Description: PLOTTER
Serial Number: 0049616
Asset Number: 002291

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

Ambient Conditions: Temperature: 74.0 Degrees Fahrenheit Humidity: 38 % RH

Calibration Date: 2 Aug 00 **Calibration Procedure:** cl-75 6/99

Condition as Received: IN TOLERANCE

Remarks:

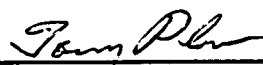
Approved by:


Walt Hill, Supervisor or Walt Hill, Metrologist

Certificate # 39645

m:\nona21a.rpt Rev date 22 May 00

Measurements performed by:


Tony Planas, Technician

Page 1 of 1

SOUTHWEST RESEARCH INSTITUTE

Calibration Laboratory

WORK ORDER

Received by RCRUZ, 8/22/01 8:35:28AM

██

Arrived 8/22/01

Work Order **444044940**

Asset No. 002291 Manufacturer ABBEON

Model SE 120

Instrument Type/Class STRIP CHART RECORDER

Serial No. 0049616

Accessory No.

Calibration Procedure

Location B57

Div/Client DIV20

Custodian DARRELL DUNN

Mail Stop B57

Tel. 6090

IN4CAL

Special Instructions _____

Notify before making adjustments or repairs. Provide measurement readings

Charge/Project No. 00751.006.1.20

Requested By / Telephone

The above is correct for the work requested.

Darrell Dunn

WORK NOTES

Date	Hours	Remarks/Notes
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Date	Hours	Part Name	Part Number	Failure Description	Cost
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

WORK SUMMARY

Failure Description _____

Repair Action _____

Calibration Procedure CL-75 - June, 99 Temp 72 Hum 42 %

Tech ROP Totals Cal Hours 2 Repair Hours _____ Parts Cost _____

Standards Used 4164

Date Picked Up 8/21/01

Picked Up By *Darrell Dunn*

44940

Southwest Research Institute
Calibration Laboratory

Work Order 444044940	Mfr. Abb	Tech TPlanas
Asset No. 002291	Model SE 120	Procedure CL-75, 6/99
Serial No. 0049616	Type Strip Chart Recorder	Cal Date 4 Sep, 01

Calibration As Found/As Released Data

Parameter	Standard Reading	UUT As Found	Tolerance	UUT As Released
5.2 Time Unit				
60cm/min Range	60 cm	Pass	Pass/Fail	Pass
Lower Pen				

5.3 Voltage Measureing Unit 811

5.3.1 Calibrated zero suppression	< 0.2 % of Setting	0.1	0.2 % of Setting	Pass
Dead Band	50 mV	0.1 mV	± 0.3 mV	Pass
Setting Time	≈ 0.5 sec	0.5	Approximately 0.5 sec	Pass
Damping		0.5	≤ 1 %	Pass

Input accuracy

1 mV DC Range	1 mV	0.997	± 0.010 mV	Pass
2 mV DC Range	2 mV	1.996	± 0.010 mV	Pass
5 mV DC Range	5 mV	4.985	± 0.025 mV	Pass
10 mV DC Range	10 mV	9.960	± 0.050 mV	Pass
20 mV DC Range	20 mV	19.95	± 0.10 mV	Pass
50 mV DC Range	50 mV	49.83	± 0.25 mV	Pass
100 mV DC Range	100 mV	99.70	± 0.500 mV	Pass
	50 mV	49.80	± 0.250 mV	Pass
	25 mV	24.96	± 0.250 mV	Pass
1 V DC Range	1 V	0.996	± 0.005 V	Pass
2 V DC Range	2 V	1.992	± 0.010 V	Pass
5 V DC Range	5 V	4.984	± 0.025 V	Pass
10 V DC Range	10 V	9.98	± 0.05 V	Pass
20 V DC Range	20 V	19.99	± 0.10 V	Pass
50 V DC Range	50 V	49.99	± 0.25 V	Pass
100 V DC Range	100 V	99.96	± 0.50 V	Pass
200 V DC Range	200 V	199.97	± 1.0 V	Pass

Repeat on second sheet for additional 811 plug-ins

Southwest Research Institute
Calibration Laboratory

Work Order 444044940	Mfr. Abb	Tech TPlanas
Asset No. 002291	Model SE 120	Procedure CL-75, 6/99
Serial No. 0049616	Type Strip Chart Recorder	Cal Date 4 Sep, 01

Calibration As Found/As Released Data

Parameter	Standard Reading	UUT As Found	Tolerance	UUT As Released
5.2 Time Unit				
60cm/min Range	60 cm	Pass	Pass/Fail	Pass

5.3 Voltage Measureing Unit 811

5.3.1 Calibrated zero suppression	< 0.2 % of Setting	0.01%	0.2 % of Setting	Pass
Dead Band	50 mV	0.1 mV	± 0.3 mV	Pass
Setting Time	≈ 0.5 sec	0.5	Approximately 0.5 sec	Pass
Damping		0.5	≤ 1 %	Pass

Input accuracy

1 mV DC Range	1 mV	0.998	± 0.010 mV	Pass
2 mV DC Range	2 mV	1.990	± 0.010 mV	Pass
5 mV DC Range	5 mV	4.986	± 0.025 mV	Pass
10 mV DC Range	10 mV	9.998	± 0.050 mV	Pass
20 mV DC Range	20 mV	19.998	± 0.10 mV	Pass
50 mV DC Range	50 mV	49.87	± 0.25 mV	Pass
100 mV DC Range	100 mV	99.93	± 0.500 mV	Pass
	50 mV	49.87	± 0.250 mV	Pass
	25 mV	24.9	± 0.250 mV	Pass
1 V DC Range	1 V	0.9998	± 0.005 V	Pass
2 V DC Range	2 V	1.999	± 0.010 V	Pass
5 V DC Range	5 V	4.982	± 0.025 V	Pass
10 V DC Range	10 V	9.98	± 0.05 V	Pass
20 V DC Range	20 V	19.99	± 0.10 V	Pass
50 V DC Range	50 V	50.00	± 0.25 V	Pass
100 V DC Range	100 V	99.61	± 0.50 V	Pass
200 V DC Range	200 V	199.40	± 1.0 V	Pass

Repeat on second sheet for additional 811 plug-ins
