



Electronic Repair & Calibration

530 BOSTON ROAD (RTE. 3A)
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Certificate of Calibration

Submitted by: FOTRONIC, INC
99 WASHINGTON STREET
MELROSE, MA 02176

Calibration Date: June 8, 2009

Due Date: June 8, 2010

Manufacturer: FLUKE

Model: 54-2

Description: THERMOMETER

Serial Number: 99340004

Property Number:

The above unit was calibrated in accordance with purchase order requirements on the date noted above and was performing in accordance with the manufacturer's specifications at the time of release from this laboratory. This certification was performed using standards maintained by this laboratory, which are periodically certified traceable to the National Institute of Standards and Technology. The cycling and certification of all standards of measurement used by Hayes Instrument Service meet the requirements of ISO 9001:2000, MIL-STD-45662A, ISO/IEC 17025:2005, ISO-10012:1992 and ANSI/NCSL Z540-1-1994. The calibration standards used have an uncertainty error of no more than 1/4 of the tolerance of the equipment being calibrated, or have an accuracy that ensures the equipment being calibrated will be within required tolerances. (Accomplished under quality system manual, QM-100 dated 04/06/04 Rev. D 2004)

STANDARD	N.I.S.T Trace CERT#
DC Voltage	VIA JOSEPHSON ARRAY
AC Voltage	2D7709
Resistance	071907
Frequency	VLF Transmission
	ON WWVB & LORAN C
Mass	268730
Dimensional	270003


Authorized Signature

Temperature & Humidity
72°F ± 5° 45% ± 25% R.H.

Received in tol x out tol
Returned in tol x out tol

Hayes Instrument Service, Inc.

SUBMITTED BY Fotronic, Inc. CALIBRATION DATE 06-08-09
 MANUFACTURER FLUKE DUE DATE 06-08-10
 MODEL NO 54-2 CAL ENGINEER ISI
 DESCRIPTION THERMOMETER CAL PROCEDURE MFG MANUAL
 SERIAL NO. 99340004 PROPERTY NO. _____

H.I.S. Ref # 1208

TEMP & HUMIDITY

APPROVED BY TF CALIBRATION RECORD71 45

FUNCTION TESTED	RANGE	STANDARD VALUE	ACTUAL MEAS. VALUE	AFTER ADJUST MEAS. VALUE	TOLERANCE
METER ACCY	T C	-250.0	-249.7	<i>Nully</i>	-248.9 - -251.1
T 1		0.0	0.0		-.3 - .3
		100.0	100.0		99.7 - 100.3
		200.0	200.0		199.6 - 200.4
		300.0	300.0		299.5 - 300.5
		400.0	400.0		399.5 - 400.5
METER ACCY	T F	-400.0	-399.3		-398.0 - -402.0
T 2		0.0	0.0		-.5 - .5
		100.0	100.0		99.5 - 100.5
		500.0	500.0		499.2 - 500.8
		750.0	750.0		749.1 - 750.9
		32.0	32.1		31.5 - 32.5
		212.0	212.1		211.4 - 212.6
FUNCTIONAL		CHECK	PASS	P	PASS TEST

H.I.S. REFERENCE STANDARDS

Mfg FLUKE Description CALIBRATOR Model # 5520A/SC600 Serial # 7280202 Cal Date 3-09 Cal Cycle 12 mo

