

Accurate Laboratories, Inc.
1613 S.E. 66th Street, Suite D
Oklahoma City, OK 73149

405-670-1388 Fax 405-670-0121
Web: www accuratelabs.net
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Customer Name Climate Master
Location Oklahoma City
P.O. Box 2540
7300 S.W. 44th
Oklahoma City, OK 73101-2540
Contact Mike Privett/Steve Cohran
Phone (405) 745-6000
Fax (405) 745-6058

Calibration Documentation

*This Certificate may not be copied, except in full, without written consent of Accurate Laboratories, Inc.
Service Date is Receive Date unless otherwise noted. Results listed relate only to the items that are tested and/or calibrated.*

Manufacturer: Monarch - Tachometer

Model: ACT-3

Reference #: 1444189

Location-Dept.: On-Site-Eng. Lab

Serial #: 1444189

Service Date: 02/17/2004

Typist: Anita Snow

Temp: 74.8°

Due Date: 02/17/2005

Technician: Jay Shepherd

Humidity: 28%

Received Condition: In Tolerance

Procedure: Mfg Specs

Returned Condition: In Tolerance

Range: 0-99999 RPM

Comments: On-Site 02/17/04

Standard Name	Standard	Tolerance		Before Reading*	After Reading*
	60.010000	+0.600000	-0.600000	60.048000	60.048000
	600.010000	+6.000000	-6.000000	599.970000	599.970000
	6000.030000	+60.000000	-60.000000	6000.000000	6000.000000
	60000.000000	+600.000000	-600.000000	60000.000000	60000.000000

*Bold reading entries indicate they are out of tolerance.

Calibration Equipment Used

Asset Number	Manufacturer	Model	Calibration Date	Due Date	NIST #
ALI-O-316	Fluke	5500A	10/1/2003	10/1/2004	821/673681
ALI-O-320	Leader		1/1/2004	1/1/2005	

*This Company maintains a quality system that meets or exceeds the requirement set forth in the following documents:
ANSI/NGSL Z540-1 1994, ISO 10012-1, and ISO/IEC 17025. All reference standards used are traceable to NIST, Fundamental or Natural
Physical Constants, or by accepted radiometric techniques.*

OnSite InShop **Authorized Signature:**  **Date:** 2-27-04

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Manufacturer: Fluke - AC Current Transformer

Model: Y8101A

Reference #:

Location-Dept.: On-Site-Eng. Lab

Serial #: 70266354

Service Date: 02/17/2004

Typist: Anita Snow

Temp: 70.5°

Due Date: 02/17/2005

Technician: Jay Shepherd

Humidity: 29%

Received Condition: In Tolerance

Procedure: Mfg Specs

Returned Condition: In Tolerance

Range: 2 to 150 A

Comments: On-Site 02/17/04

Standard Name	Standard	Tolerance		Before Reading*	After Reading*
	10.000000	+0.350000	-0.350000	10.000000	10.000000
	100.000000	+2.150000	-2.150000	100.000000	100.000000

*Bold reading entries indicate they are out of tolerance.

Calibration Equipment Used

Asset Number	Manufacturer	Model	Calibration Date	Due Date	NIST #
ALI-O-316	Fluke	5500A	10/1/2003	10/1/2004	821/673681
ALI-O-319	Agilent	34401A	1/20/2004	1/20/2005	0003/727506

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OnSite InShop

Authorized Signature: 

Date: 2-27-04

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Manufacturer: Fluke - Multimeter		Model: 27
Reference #: 6797026	Location-Dept.: On-Site-Eng. Lab	Serial #: 6797026
Service Date: 02/17/2004	Typist: Anita Snow	Temp: 70.9°
Due Date: 02/17/2005	Technician: Jay Shepherd	Humidity: 29%
Received Condition: In Tolerance		Procedure: Mfg Specs
Returned Condition: In Tolerance		Range: Various
Comments: On-Site 02/17/04		

Standard Name	Standard	Tolerance	Before Reading*	After Reading*
VDC	0.100000	+0.100100 -0.100100	0.100000	0.100000
VDC	1.000000	+0.101000 -0.101000	1.000000	1.000000
VDC	10.000000	+0.110000 -0.110000	9.900000	9.900000
VDC	100.000000	+0.200000 -0.200000	99.900000	99.900000
VDC	1.000000	+0.002000 -0.002000	1.000000	1.000000
VDC	10.000000	+0.020000 -0.020000	10.000000	10.000000
VDC	100.000000	+0.200000 -0.200000	100.000000	100.000000
VDC	1000.000000	+2.000000 -2.000000	1000.000000	1000.000000
VAC	1.000000	+0.305000 -0.305000	1.000000	1.000000
VAC	10.000000	+0.350000 -0.350000	9.900000	9.900000
VAC	100.000000	+0.800000 -0.800000	99.700000	99.700000
VAC	1.000000	+0.008000 -0.008000	0.999000	0.999000
VAC	10.000000	+0.080000 -0.080000	9.990000	9.990000
VAC	100.000000	+0.800000 -0.800000	99.900000	99.900000
VAC	1000.000000	+8.000000 -8.000000	999.000000	999.000000
ohms	1.000000	+0.102000 -0.102000	1.000000	1.000000
ohms	10.000000	+0.120000 -0.120000	9.900000	9.900000
ohms	100.000000	+0.300000 -0.300000	100.100000	100.100000
ohms	1.000000	+0.003000 -0.003000	1.000000	1.000000
ohms	10.000000	+0.030000 -0.030000	10.000000	10.000000
ohms	100.000000	+0.300000 -0.300000	100.000000	100.000000
ohms	1.000000	+0.003000 -0.003000	1.000000	1.000000
ohms	10.000000	+0.030000 -0.030000	10.010000	10.010000
ADC	1.000000	+0.207500 -0.207500	1.000000	1.000000

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Manufacturer: Ohio Semintonix - Digital Signal Processor		Model: DSP-007Y02
Reference #: CELL#4	Location-Dept.: Comp. 2-Eng. Lab	Serial #: 9081575
Service Date: 02/17/2004	Typist: Anita Snow	Temp: 74.8°
Due Date: 02/17/2005	Technician: Jay Shepherd	Humidity: 27%
Received Condition: In Tolerance Returned Condition: In Tolerance		Procedure: Mfg Specs
		Range: see comments

Comments: On-Site 02/17/04. Range: 0-300 VAC/0-100 Amp/0-30 Kw

Standard Name	Standard	Tolerance		Before Reading*	After Reading*
VAC	208.000000	+1.040000	-1.040000	208.000000	208.000000
AAC	20.000000	+0.100000	-0.100000	19.900000	19.900000
AAC	50.000000	+0.300000	-0.300000	49.700000	49.700000
AAC	100.000000	+0.500000	-0.500000	99.500000	99.500000
Watts	4.140000	+0.050000	-0.050000	4.160000	4.160000
Watts	10.380000	+0.100000	-0.100000	10.340000	10.340000
Watts	20.750000	+0.400000	-0.400000	20.660000	20.660000
VAC	230.000000	+1.150000	-1.150000	230.000000	230.000000
AAC	20.000000	+0.100000	-0.100000	19.900000	19.900000
AAC	50.000000	+0.300000	-0.300000	49.700000	49.700000
AAC	100.000000	+0.500000	-0.500000	99.500000	99.500000
Watts	4.580000	+0.050000	-0.050000	4.580000	4.580000
Watts	11.480000	+0.100000	-0.100000	11.440000	11.440000
Watts	22.940000	+0.400000	-0.400000	22.880000	22.880000
VAC	240.000000	+1.200000	-1.200000	240.000000	240.000000
AAC	20.000000	+0.100000	-0.100000	19.900000	19.900000
AAC	50.000000	+0.300000	-0.300000	49.700000	49.700000
AAC	100.000000	+0.500000	-0.500000	99.500000	99.500000
Watts	4.780000	+0.050000	-0.050000	4.780000	4.780000
Watts	11.980000	+0.100000	-0.100000	11.940000	11.940000
Watts	23.940000	+0.400000	-0.400000	23.900000	23.900000
VAC	265.000000	+1.325000	-1.325000	265.000000	265.000000
AAC	20.000000	+0.100000	-0.100000	19.900000	19.900000
AAC	50.000000	+0.300000	-0.300000	49.700000	49.700000

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Manufacturer: Ohio Semitronix - Digital Signal Processor **Model:** DSP-007Y02
Reference #: Cell #4 **Serial #:** 9081577
Location-Dept.: Blower-Eng. Lab
Service Date: 02/16/2004 **Temp:** 75.2°
Typist: Anita Snow
Due Date: 02/16/2005 **Humidity:** 27%
Technician: Jay Shepherd

Received Condition: In Tolerance
Returned Condition: In Tolerance

Procedure: Mfg Specs
Range: see comments

Comments: On-Site 02/16/04. Range: 0-300 VAC/0-100 Amp/0-30.00 Kw

Standard Name	Standard	Tolerance		Before Reading*	After Reading*
ACV	208.000000	+1.040000	-1.040000	208.200000	208.200000
ACA	20.000000	+0.100000	-0.100000	19.900000	19.900000
ACA	50.000000	+0.250000	-0.250000	49.900000	49.900000
ACA	100.000000	+0.500000	-0.500000	99.700000	99.700000
Watts	4.140000	+0.040000	-0.040000	4.180000	4.180000
Watts	10.370000	+0.100000	-0.100000	10.380000	10.380000
Watts	20.760000	+0.400000	-0.400000	20.740000	20.740000
ACV	230.000000	+1.150000	-1.150000	230.200000	230.200000
ACA	20.000000	+0.100000	-0.100000	19.900000	19.900000
ACA	50.000000	+0.250000	-0.250000	49.900000	49.900000
ACA	100.000000	+0.500000	-0.500000	99.700000	99.700000
Watts	4.580000	+0.040000	-0.040000	4.620000	4.620000
Watts	11.460000	+0.100000	-0.100000	11.480000	11.480000
Watts	22.950000	+0.200000	-0.200000	22.920000	22.920000
ACV	240.000000	+1.200000	-1.200000	240.200000	240.200000
ACA	20.000000	+0.100000	-0.100000	19.900000	19.900000
ACA	50.000000	+0.250000	-0.250000	49.900000	49.900000
ACA	100.000000	+0.500000	-0.500000	99.700000	99.700000
Watts	4.780000	+0.040000	-0.040000	4.820000	4.820000
Watts	11.960000	+0.100000	-0.100000	11.980000	11.980000
Watts	23.950000	+0.300000	-0.300000	23.960000	23.960000
ACV	265.000000	+1.325000	-1.325000	265.200000	265.200000
ACA	20.000000	+0.100000	-0.100000	19.900000	19.900000
ACA	50.000000	+0.250000	-0.250000	49.800000	49.800000

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Manufacturer: Ohio Semitronix - Digital Signal Processor	Model:	
Reference #: Cell #4	Location-Dept.: Comp.-Eng. Lab	Serial #: 00121838
Service Date: 02/16/2004	Typist: Anita Snow	Temp: 75.2°
Due Date: 02/16/2005	Technician: Jay Shepherd	Humidity: 27%
Received Condition: In Tolerance		Procedure: Mfg Specs
Returned Condition: In Tolerance		Range: see comments

Comments: On-Site 02/16/04. Range: 0-300 VAC/0-100 AAC/0-3000Kw

Standard Name	Standard	Tolerance		Before Reading*	After Reading*
VAC	208.000000	+1.040000	-1.040000	208.100000	208.100000
AAC	20.000000	+0.100000	-0.100000	20.000000	20.000000
AAC	50.000000	+0.250000	-0.250000	50.000000	50.000000
AAC	100.000000	+0.500000	-0.500000	100.100000	100.100000
Wats	4.160000	+0.040000	-0.040000	4.140000	4.140000
Wats	10.410000	+0.030000	-0.030000	10.400000	10.400000
Wats	20.830000	+0.052000	-0.052000	20.820000	20.820000
VAC	230.000000	+1.150000	-1.150000	230.100000	230.100000
AAC	20.000000	+0.100000	-0.100000	20.000000	20.000000
AAC	50.000000	+0.250000	-0.250000	50.000000	50.000000
AAC	100.000000	+0.500000	-0.500000	100.100000	100.100000
Watts	4.600000	+0.011500	-0.011500	4.600000	4.600000
Watts	11.510000	+0.030000	-0.030000	11.520000	11.520000
Watts	23.030000	+0.057500	-0.075000	23.020000	23.020000
VAC	265.000000	+1.320000	-1.320000	265.000000	265.000000
AAC	20.000000	+0.100000	-0.100000	20.000000	20.000000
AAC	50.000000	+0.250000	-0.250000	50.000000	50.000000
AAC	100.000000	+0.500000	-0.500000	100.100000	100.100000
Watts	5.300000	+0.020000	-0.020000	5.320000	5.320000
Watts	13.260000	+0.033125	-0.033125	13.260000	13.260000
Watts	26.540000	+0.066250	-0.066250	26.540000	26.540000
VAC	300.000000	+1.500000	-1.500000	300.000000	300.000000
AAC	20.000000	+0.100000	-0.100000	20.000000	20.000000
AAC	50.000000	+0.250000	-0.250000	50.000000	50.000000

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CERTIFICATE OF CALIBRATION

Report ID: 20040401

*This certificate may not be copied, except in full, without written consent of CLIMATEMASTER, Inc.
 Results listed relate only to the items that are tested and/or calibrated.*

Customer: CLIMATEMASTER Engineering Lab, Cell#4
 Technician: Joe Whipple
 Calibration Equipment Used:

Manufacturer - Amthor, Dead Weight Tester
 Model - 2687
 Serial - 33
 Certificate - #20030213075449
 Cal Date: 2/12/03
 Due Date: 2/12/06

These Setra Model 206 pressure transducers have been presented for inspection and test as shown below. The indicated work was performed using equipment that is calibrated and traceable to the National Institute of Standards and Technology.

Pressures in (PSIG) pounds per square inch gauge.
 Procedure: CLM Engineering Laboratory Calibration Procedures, Pressure Transducer Calibration.

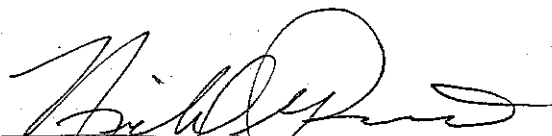
Pressure Transducer Post-Check

Cal Date	Date Due	Transducer Name	psig	Tolerance	psig	Tolerance	psig	Tolerance	psig	Tolerance
			450.00	+/- 2%	300.00	+/- 2%	150.00	+/- 2%	50.00	+/- 2%
2/11/2004	2/11/2005	Discharge Press	450.03	0.01	300.00	0.00	150.03	0.02	50.03	0.06
2/11/2004	2/11/2005	Suction Press	450.01	0.00	300.04	0.01	150.04	0.03	50.01	0.02
12/8/2003	12/8/2004	Aux. 1 Press	450.02	0.00	300.15	0.05	150.34	0.23	50.02	0.04
12/8/2003	12/8/2004	Aux. 2 Press	449.97	-0.01	300.14	0.05	150.11	0.07	50.02	0.04

Koax delta-P Post-Check

Cal Date	Date Due	Transducer Name	psig	Tolerance	psig	Tolerance	psig	Tolerance
			35.00	+/- 2%	25.00	+/- 2%	15.00	+/- 2%
10/24/2002	10/24/2003	Koax ▲-P 1	35.00	0.00	25.00	0.00	15.01	0.07

This company maintains a quality system that is modeled after ISO 9001-2000.



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CERTIFICATE OF CALIBRATION

Report ID: 20040402

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Customer: CLIMATEMASTER Engineering Lab, Cell#4

Technician: Joe Whipple

Calibration Equipment Used:

Manufacturer - Techne

Model - 140S

Serial - 97112-8

Certificate - #4772

Cal Date: 3/17/04

Due Date: 3/17/05

These Pyromation Part #R5T185L484-006-00-15-F306E-0, 4-wire, 100Ohm, Platinum RTD's have been presented for inspection and test as shown below. The indicated work was performed using equipment that is calibrated and traceable to the National Institute of Standards and Technology.

Temperatures in (°F) degrees Fahrenheit.

Procedure: CLM Engineering Laboratory Calibration Procedures, RTD Calibration.

RTD Post-Check

Cal Date	Date Due	RTD Name	Temp 25 °F	Tolerance +/- .18 °F	Temp 70 °F	Tolerance +/- .18 °F	Temp 115 °F	Tolerance +/- .18 °F
4/15/2004	4/15/2005	UUT EWT	25.0337	0.03	70.0789	0.08	115.0483	0.05
4/15/2004	4/15/2005	UUT LWT	25.0289	0.03	70.0621	0.06	115.0524	0.05
4/15/2004	4/15/2005	ID EAT Wet Bulb	25.0179	0.02	70.0738	0.07	115.0635	0.06
4/15/2004	4/15/2005	ID LAT Wet Bulb	25.0285	0.03	70.0667	0.07	115.0551	0.06

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