Certificate Number
A2063647
Issue Date: 12/28/15

Certificate of Calibration

Customer: ACCURATE CALIBRATION
1924 PINNACLE DR.
AURORA, IL, 60502
(630)269-1480

P.O. Number:

ID Number: R051052

Description: TEMPERATURE CALIBRATOR
Manufacturer: EUROTHERM
Model Number: MEMOCAL 2000
Serial Number: 00.18.2202
Technician: ANDREW DAVIS
On-Site Calibration: ..
Comments: Calibrated in accordance with AMS 2750 E.

Calibration Date: 12/28/2015
Calibration Due: 03/28/2016
Procedure: EUROTHERM MEMOCAL 2000
Rev: 1/21/2011
Temperature: 68 F
Humidity: 28 % RH
As Found Condition: IN TOLERANCE
Calibration Results: IN TOLERANCE

Limiting Attribute:

This instrument has been calibrated using standards traceable to the National Institute of Standards and Technology, derived from natural physical constants, ratio measurements or compared to consensus standards. Unless otherwise noted, the method of calibration is direct comparison to a known standard.

Reported uncertainties are expressed as expanded uncertainty values at an approximately 95% confidence level using a coverage factor of K=2. Statements of compliance are based on test results falling within specified limits with no reduction by the uncertainty of the measurement.

TMI's Quality System is accredited to ISO/IEC 17025 and ANSI/NCSL Z540-1 by A2LA. ISO/IEC 17025 is written in a language relevant to laboratory operations, meeting the principles of ISO 9001 and aligned with its pertinent requirements. This calibration is within the current A2LA Scope of Accreditation and complies with the requirements of ISO/IEC 17025 and TMI's Quality Manual, QM-1.

Results contained in this document relate only to the item calibrated. Calibration due dates appearing on the certificate or label are determined by the client for administrative purposes and do not imply continued conformance to specifications.

This certificate shall not be reproduced, except in full, without the written permission of Technical Maintenance, Inc.

ANTHONY ROGERS, BRANCH MANAGER

JACK SHULER, QUALITY MANAGER

Calibration Standards

Asset Number	Manufacturer	Model Number	Date Calibrated	Cal Due
2823A07541	HEWLETT PACKARD	3458A	5/4/2015	5/4/2016
4610013	FLUKE	5720A/003	6/13/2015	6/13/2016
RFD7526A-156	FLUKE	7526A-156	5/19/2015	5/19/2016

Technical Maintenance, Inc.
3248 FOREST VIEW ROAD, ROCKFORD, IL 61109
Phone: 779-774-3877 Fax 779-774-3884
www.tmicalibration.com

ISO/IEC 17025:2005
CALIBRATION CERT.#1378.07

Certificate of Calibration

Data Sheet

Parameter	Nominal	Minimum	Maximum	As Found	As Left	Uncertainty	Unit	ADJ/FAIL
mV Output Accuracy, -4 to 20 mV range	-4.00000	-4.00060	-3.99940	-4.00044	-4.00044	0.372 uV	mV	
mV Output Accuracy, -4 to 20 mV range	0.00000	0.00000	0.00000	0.00000	0.00000	0.3 uV	mV	
mV Output Accuracy, -4 to 20 mV range	5.00000	4.99925	5.00075	4.99925	4.99925	0.39 uV	mV	
mV Output Accuracy, -4 to 20 mV range	10.00000	9.99850	10.00150	9.99909	9.99909	0.48 uV	mV	
mV Output Accuracy, -4 to 20 mV range	15.00000	14.99775	15.00225	15.00079	15.00079	0.57 uV	mV	
mV Output Accuracy, -4 to 20 mV range	20.00000	19.99700	20.00300	20.00110	20.00110	0.66 uV	mV	
mV Output Accuracy, -40 to 200 mV range	-40.00000	-40.00600	-39.99400	-39.99912	-39.99912	1.02 uV	mV	
mV Output Accuracy, -40 to 200 mV range	0.00000	0.00000	0.00000	0.00000	0.00000	0.3 uV	mV	
mV Output Accuracy, -40 to 200 mV range	50.00000	49.99250	50.00750	49.99407	49.99407	1.2 uV	mV	
mV Output Accuracy, -40 to 200 mV range	100.00000	99.98500	100.01500	99.98514	99.98514	2.1 uV	mV	
mV Output Accuracy, -40 to 200 mV range	150.00000	149.97750	150.02250	149.99430	149.99430	1.95 uV	mV	
mV Output Accuracy, -40 to 200 mV range	200.00000	199.97000	200.03000	199.98930	199.98930	2.5 uV	mV	
mV Output Accuracy, -400 to 2000 mV range	-400.00000	-400.06000	-399.94000	-399.98620	-399.98620	4.7 uV	mV	
mV Output Accuracy, -400 to 2000 mV range	0.00000	0.00000	0.00000	0.00000	0.00000	0.3 uV	mV	
mV Output Accuracy, -400 to 2000 mV range	500.00000	499.92500	500.07500	499.97100	499.97100	5.8 uV	mV	
mV Output Accuracy, -400 to 2000 mV range	1000.00000	999.85000	1000.15000	999.92740	999.92740	11.3 uV	mV	
mV Output Accuracy, -400 to 2000 mV range	1500.00000	1499.77500	1500.22500	1500.05900	1500.05900	17 uV	mV	
mV Output Accuracy, -400 to 2000 mV range	2000.00000	1999.70000	2000.30000	1999.99700	1999.99700	22.5 uV	mV	
mV Output Accuracy, -4 to 20 V range	-4.000000	-4.000800	-3.999200	-3.999938	-3.999938	44.5 uV	V	
mV Output Accuracy, -4 to 20 V range	0.000000	0.000000	0.000000	0.000000	0.000000	0.3 uV	V	
mV Output Accuracy, -4 to 20 V range	5.000000	4.999000	5.001000	4.999217	4.999217	55.5 uV	V	
mV Output Accuracy, -4 to 20 V range	10.000000	9.998000	10.002000	10.000091	10.000091	110.5 uV	V	
mV Output Accuracy, -4 to 20 V range	15.000000	14.997000	15.003000	14.999440	14.999440	225 uV	V	
mV Output Accuracy, -4 to 20 V range	20.000000	19.996000	20.004000	20.000310	20.000310	290 uV	V	
mV Measurement Accuracy, -20 to 20 mV range	-20.000	-20.003	-19.997	-20.000	-20.000	1.48 uV	mV	
mV Measurement Accuracy, -20 to 20 mV range	0.000	0.000	0.000	0.000	0.000	1 uV	mV	
mV Measurement Accuracy, -20 to 20 mV range	5.000	4.999	5.001	4.999	4.999	1.12 uV	mV	
mV Measurement Accuracy, -20 to 20 mV range	10.000	9.999	10.002	9.999	9.999	1.24 uV	mV	
mV Measurement Accuracy, -20 to 20 mV range	15.000	14.998	15.002	15.000	15.000	1.36 uV	mV	
mV Measurement Accuracy, -20 to 20 mV range	20.000	19.997	20.003	20.001	20.001	1.48 uV	mV	
mV Measurement Accuracy, -200 to 200 mV range	-200.00	-200.03	-199.97	-199.98	-199.98	5.8 uV	mV	
mV Measurement Accuracy, -200 to 200 mV range	0.00	0.00	0.00	0.00	0.00	1 uV	mV	
mV Measurement Accuracy, -200 to 200 mV range	50.00	49.99	50.01	50.00	50.00	2.7 uV	mV	
mV Measurement Accuracy, -200 to 200 mV range	100.00	99.99	100.02	99.99	99.99	3.4 uV	mV	
mV Measurement Accuracy, -200 to 200 mV range	150.00	149.98	150.02	150.00	150.00	4.6 uV	mV	
mV Measurement Accuracy, -200 to 200 mV range	200.00	199.97	200.03	200.01	200.01	5.8 uV	mV	
mV Measurement Accuracy, -2 to 2 V range	-2.0000	-2.0003	-1.9997	-1.9998	-1.9998	30 uV	mV	
mV Measurement Accuracy, -2 to 2 V range	0.0000	0.0000	0.0000	0.0000	0.0000	1 uV	V	
mV Measurement Accuracy, -2 to 2 V range	0.5000	0.4999	0.5001	0.5000	0.5000	9 uV	V	
mV Measurement Accuracy, -2 to 2 V range	1.0000	0.9999	1.0002	0.9999	0.9999	16 uV	V	
mV Measurement Accuracy, -2 to 2 V range	1.5000	1.4998	1.5002	1.5000	1.5000	23 uV	V	
mV Measurement Accuracy, -2 to 2 V range	2.0000	1.9997	2.0003	2.0000	2.0000	30 uV	V	
mV Measurement Accuracy, -20 to 20 V range	-20.000	-20.004	-19.996	-19.997	-19.997	320 uV	V	
mV Measurement Accuracy, -20 to 20 V range	0.000	0.000	0.000	0.000	0.000	1 uV	V	
mV Measurement Accuracy, -20 to 20 V range	5.000	4.999	5.001	4.999	4.999	95 uV	V	
mV Measurement Accuracy, -20 to 20 V range	10.000	9.998	10.002	9.998	9.998	170 uV	V	
mV Measurement Accuracy, -20 to 20 V range	15.000	14.997	15.003	14.999	14.999	245 uV	V	

Certificate of Calibration

Data Sheet

Parameter	Nominal	Minimum	Maximum	As Found	As Left	Uncertainty	Unit	ADJ/FAIL
mV Measurement Accuracy, -20 to 20 V range	20.000	19.996	20.004	19.999	19.999	320 uV	V	
mA Output Accuracy, 0 to 21 mA range	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.04 uA	mA	
mA Output Accuracy, 0 to 21 mA range	1.0000000	0.9998500	1.0001500	1.0000469	1.0000469	0.075 uA	mA	
mA Output Accuracy, 0 to 21 mA range	5.0000000	4.9992500	5.0007500	5.0002670	5.0002670	0.175 uA	mA	
mA Output Accuracy, 0 to 21 mA range	10.0000000	9.9985000	10.0015000	10.0006670	10.0006670	0.3 uA	mA	
mA Output Accuracy, 0 to 21 mA range	15.0000000	14.9977500	15.0022500	15.0017100	15.0017100	1.145 uA	mA	
mA Output Accuracy, 0 to 21 mA range	21.0000000	20.9968500	21.0031500	21.0025700	21.0025700	1.403 uA	mA	
mA Measurement Accuracy, -20 to 20 mA range	-20.000	-20.003	-19.997	-19.997	-19.997	2.65 uA	mA	
mA Measurement Accuracy, -20 to 20 mA range	0.000	0.000	0.000	0.000	0.000	0.02 uA	mA	
mA Measurement Accuracy, -20 to 20 mA range	5.000	4.999	5.001	5.001	5.001	0.85 uA	mA	
mA Measurement Accuracy, -20 to 20 mA range	10.000	9.999	10.002	10.000	10.000	1.45 uA	mA	
mA Measurement Accuracy, -20 to 20 mA range	15.000	14.998	15.002	14.999	14.999	2.05 uA	mA	
mA Measurement Accuracy, -20 to 20 mA range	20.000	19.997	20.003	19.999	19.999	2.65 uA	mA	
mA Measurement Accuracy, -130 to 130 mA range	-130.00	-130.03	-129.97	-130.01	-130.01	33.7 uA	mA	
mA Measurement Accuracy, -130 to 130 mA range	0.00	0.00	0.00	0.00	0.00	0.02 uA	mA	
mA Measurement Accuracy, -130 to 130 mA range	10.00	10.00	10.00	10.00	10.00	1.45 uA	mA	
mA Measurement Accuracy, -130 to 130 mA range	50.00	49.99	50.01	50.01	50.01	14.5 uA	mA	
mA Measurement Accuracy, -130 to 130 mA range	100.00	99.98	100.02	100.00	100.00	26.5 uA	mA	
mA Measurement Accuracy, -130 to 130 mA range	130.00	129.97	130.03	130.01	130.01	33.7 uA	mA	
RTD Pt. 100 Ohm Measurement, 20.68 Ohms	-195.0	-195.3	-194.7	-195.1	-195.1	0.025 Deg C	Deg C	
RTD Pt. 100 Ohm Measurement, 60.26 Ohms	-100.0	-100.3	-99.7	-100.1	-100.1	0.025 Deg C	Deg C	
RTD Pt. 100 Ohm Measurement, 100.00 Ohms	0.0	-0.3	0.3	-0.2	-0.2	0.025 Deg C	Deg C	
RTD Pt. 100 Ohm Measurement, 138.51 Ohms	100.0	99.7	100.3	99.8	99.8	0.025 Deg C	Deg C	
RTD Pt. 100 Ohm Measurement, 280.98 Ohms	500.0	499.7	500.3	499.7	499.7	0.025 Deg C	Deg C	
RTD Pt. 100 Ohm Measurement, 289.02 Ohms	845.0	844.7	845.3	844.7	844.7	0.025 Deg C	Deg C	
Resistance Measurement Accuracy	0.0	0.0	0.0	0.0	0.0	0.01 Ohms	Ohms	
Resistance Measurement Accuracy	10.0	10.0	10.0	10.0	10.0	0.01542 Ohms	Ohms	
Resistance Measurement Accuracy	100.0	100.0	100.0	100.0	100.0	0.0183 Ohms	Ohms	
Resistance Measurement Accuracy	300.0	299.9	300.1	299.9	299.9	0.0299 Ohms	Ohms	
Resistance Measurement Accuracy	500.0	499.9	500.1	499.9	499.9	0.0365 Ohms	Ohms	
Resistance Measurement Accuracy	790.0	789.8	790.2	789.8	789.8	0.04607 Ohms	Ohms	
Thermocouple Measurement Accuracy, Type E	-328.0	-328.4	-327.6	-328.4	-328.4	0.288 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	-200.0	-200.4	-199.6	-200.2	-200.2	0.288 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	0.0	-0.4	0.4	-0.2	-0.2	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	32.0	31.6	32.4	31.8	31.8	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	200.0	199.6	200.4	199.8	199.8	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	400.0	399.6	400.4	399.7	399.7	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	600.0	599.6	600.4	599.7	599.7	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	800.0	799.6	800.4	799.9	799.9	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	1000.0	999.6	1000.4	999.7	999.7	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	1200.0	1199.6	1200.4	1199.7	1199.7	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	1400.0	1399.6	1400.4	1399.6	1399.6	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	1600.0	1599.6	1600.4	1599.8	1599.8	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type E	1832.0	1831.6	1832.4	1832.0	1832.0	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	-328.0	-328.5	-327.5	-327.5	-327.5	0.396 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	-200.0	-200.5	-199.5	-199.5	-199.5	0.396 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	0.0	-0.5	0.5	0.1	0.1	0.234 Deg F	Deg F	

Certificate of Calibration

Data Sheet

Parameter	Nominal	Minimum	Maximum	As Found	As Left	Uncertainty	Unit	ADJ/FAIL
Thermocouple Measurement Accuracy, Type J	32.0	31.5	32.5	32.4	32.4	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	200.0	199.5	200.5	200.3	200.3	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	400.0	399.5	400.5	400.1	400.1	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	600.0	599.5	600.5	600.4	600.4	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	800.0	799.5	800.5	800.2	800.2	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	1000.0	999.5	1000.5	1000.2	1000.2	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	1200.0	1199.5	1200.5	1200.2	1200.2	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	1600.0	1599.5	1600.5	1600.2	1600.2	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	1800.0	1799.5	1800.5	1800.1	1800.1	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type J	2192.0	2191.5	2192.5	2192.4	2192.4	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	-328.0	-328.5	-327.5	-327.5	-327.5	0.36 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	-200.0	-200.5	-199.5	-199.5	-199.5	0.36 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	0.0	-0.5	0.5	0.3	0.3	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	32.0	31.5	32.5	32.4	32.4	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	200.0	198.0	202.0	200.3	200.3	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	400.0	398.0	402.0	400.1	400.1	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	600.0	598.0	602.0	600.3	600.3	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	800.0	798.0	802.0	800.2	800.2	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	1000.0	998.0	1002.0	1000.0	1000.0	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	1200.0	1198.0	1202.0	1200.0	1200.0	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	1400.0	1398.0	1402.0	1399.8	1399.8	0.252 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	1600.0	1598.0	1602.0	1599.8	1599.8	0.306 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	1800.0	1799.4	1800.6	1799.4	1799.4	0.306 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	2000.0	1999.4	2000.6	1999.4	1999.4	0.306 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	2200.0	2199.4	2200.6	2199.4	2199.4	0.306 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type K	2498.0	2497.1	2498.9	2497.1	2497.1	0.306 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type T	-328.0	-328.5	-327.5	-328.5	-328.5	0.36 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type T	-200.0	-200.5	-199.5	-200.5	-200.5	0.36 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type T	0.0	-0.5	0.5	-0.4	-0.4	0.27 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type T	32.0	31.5	32.5	31.5	31.5	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type T	200.0	199.8	200.2	199.8	199.8	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type T	400.0	399.8	400.2	399.8	399.8	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type T	600.0	599.8	600.2	599.8	599.8	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type T	752.0	751.8	752.2	751.8	751.8	0.234 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type R	-50.0	-52.6	-47.4	-50.6	-50.6	1.152 Deg F	Deg F	
Thermocouple Measurement Accuracy, Type R	0.0	-2.6	2.6	-0.2	-0.2	0.954	Deg F	
Thermocouple Measurement Accuracy, Type R	32.0	29.4	34.6	32.0	32.0	0.828	Deg F	
Thermocouple Measurement Accuracy, Type R	200.0	198.4	201.6	199.8	199.8	0.828	Deg F	
Thermocouple Measurement Accuracy, Type R	400.0	398.8	401.2	399.7	399.7	0.594	Deg F	
Thermocouple Measurement Accuracy, Type R	600.0	599.2	600.8	599.7	599.7	0.594	Deg F	
Thermocouple Measurement Accuracy, Type R	800.0	799.2	800.8	799.9	799.9	0.486	Deg F	
Thermocouple Measurement Accuracy, Type R	1000.0	999.2	1000.8	999.7	999.7	0.486	Deg F	
Thermocouple Measurement Accuracy, Type R	1200.0	1199.2	1200.8	1199.7	1199.7	0.468	Deg F	
Thermocouple Measurement Accuracy, Type R	1400.0	1399.2	1400.8	1399.6	1399.6	0.468	Deg F	
Thermocouple Measurement Accuracy, Type R	1600.0	1599.2	1600.8	1599.4	1599.4	0.468	Deg F	
Thermocouple Measurement Accuracy, Type R	1800.0	1799.2	1800.8	1799.6	1799.6	0.468	Deg F	
Thermocouple Measurement Accuracy, Type R	2000.0	1999.2	2000.8	1999.4	1999.4	0.432	Deg F	

Technical Maintenance, Inc.
3248 FOREST VIEW ROAD, ROCKFORD, IL 61109
Phone: 779-774-3877 Fax 779-774-3884
www.tmicalibration.com

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CALIBRATION CERT.#1378.07

Certificate of Calibration

Data Sheet

Parameter	Nominal	Minimum	Maximum	As Found	As Left	Uncertainty	Unit	ADJ/FAIL
Thermocouple Measurement Accuracy, Type R	2200.0	2199.2	2200.8	2199.6	2199.6	0.432	Deg F	
Thermocouple Measurement Accuracy, Type R	2800.0	2799.2	2800.8	2800.0	2800.0	0.432	Deg F	
Thermocouple Measurement Accuracy, Type R	3200.0	3198.8	3201.2	3199.5	3199.5	0.504	Deg F	
Thermocouple Measurement Accuracy, Type S	-50.0	-52.0	-48.0	-50.6	-50.6	1.08	Deg F	
Thermocouple Measurement Accuracy, Type S	0.0	-2.0	2.0	-0.8	-0.8	0.9	Deg F	
Thermocouple Measurement Accuracy, Type S	32.0	30.0	34.0	31.6	31.6	0.81	Deg F	
Thermocouple Measurement Accuracy, Type S	200.0	198.8	201.2	199.4	199.4	0.81	Deg F	
Thermocouple Measurement Accuracy, Type S	400.0	398.8	401.2	399.6	399.6	0.63	Deg F	
Thermocouple Measurement Accuracy, Type S	600.0	599.2	600.8	599.5	599.5	0.63	Deg F	
Thermocouple Measurement Accuracy, Type S	800.0	799.2	800.8	799.3	799.3	0.504	Deg F	
Thermocouple Measurement Accuracy, Type S	1000.0	999.2	1000.8	999.5	999.5	0.504	Deg F	
Thermocouple Measurement Accuracy, Type S	1200.0	1199.2	1200.8	1199.5	1199.5	0.486	Deg F	
Thermocouple Measurement Accuracy, Type S	1400.0	1399.2	1400.8	1399.5	1399.5	0.486	Deg F	
Thermocouple Measurement Accuracy, Type S	1600.0	1599.2	1600.8	1599.4	1599.4	0.486	Deg F	
Thermocouple Measurement Accuracy, Type S	1800.0	1799.2	1800.8	1799.2	1799.2	0.486	Deg F	
Thermocouple Measurement Accuracy, Type S	2000.0	1999.2	2000.8	1999.2	1999.2	0.486	Deg F	
Thermocouple Measurement Accuracy, Type S	2200.0	2199.2	2200.8	2199.2	2199.2	0.486	Deg F	
Thermocouple Measurement Accuracy, Type S	2800.0	2799.2	2800.8	2799.3	2799.3	0.486	Deg F	
Thermocouple Measurement Accuracy, Type S	3200.0	3199.2	3200.8	3199.3	3199.3	0.558	Deg F	
Thermocouple Measurement Accuracy, Type N	32.0	31.6	32.4	31.8	31.8	0.27	Deg F	
Thermocouple Measurement Accuracy, Type N	200.0	199.6	200.4	199.6	199.6	0.27	Deg F	
Thermocouple Measurement Accuracy, Type N	400.0	399.6	400.4	399.6	399.6	0.252	Deg F	
Thermocouple Measurement Accuracy, Type N	600.0	599.6	600.4	599.7	599.7	0.252	Deg F	
Thermocouple Measurement Accuracy, Type N	800.0	799.6	800.4	799.7	799.7	0.252	Deg F	
Thermocouple Measurement Accuracy, Type N	1000.0	999.6	1000.4	999.7	999.7	0.252	Deg F	
Thermocouple Measurement Accuracy, Type N	1200.0	1199.3	1200.7	1199.5	1199.5	0.252	Deg F	
Thermocouple Measurement Accuracy, Type N	1400.0	1399.3	1400.7	1399.6	1399.6	0.252	Deg F	
Thermocouple Measurement Accuracy, Type N	1600.0	1599.3	1600.7	1599.8	1599.8	0.288	Deg F	
Thermocouple Measurement Accuracy, Type N	1800.0	1799.3	1800.7	1799.8	1799.8	0.288	Deg F	
Thermocouple Measurement Accuracy, Type N	2000.0	1999.3	2000.7	1999.4	1999.4	0.288	Deg F	
Thermocouple Measurement Accuracy, Type N	2200.0	2199.2	2200.8	2199.4	2199.4	0.288	Deg F	
Thermocouple Measurement Accuracy, Type N	2370.0	2369.2	2370.8	2369.5	2369.5	0.288	Deg F	
Thermocouple Measurement Accuracy, Type B	150.0	135.1	164.9	149.8	149.8		Deg F	
Thermocouple Measurement Accuracy, Type B	200.0	185.1	214.9	199.9	199.9		Deg F	
Thermocouple Measurement Accuracy, Type B	400.0	397.6	402.4	399.8	399.8		Deg F	
Thermocouple Measurement Accuracy, Type B	600.0	597.6	602.4	599.9	599.9		Deg F	
Thermocouple Measurement Accuracy, Type B	800.0	798.8	801.2	799.9	799.9		Deg F	
Thermocouple Measurement Accuracy, Type B	1000.0	998.8	1001.2	1000.0	1000.0		Deg F	
Thermocouple Measurement Accuracy, Type B	1200.0	1198.8	1201.2	1200.0	1200.0	0.738	Deg F	
Thermocouple Measurement Accuracy, Type B	1400.0	1399.2	1400.8	1400.0	1400.0	0.738	Deg F	
Thermocouple Measurement Accuracy, Type B	1600.0	1599.2	1600.8	1600.0	1600.0	0.594	Deg F	
Thermocouple Measurement Accuracy, Type B	1800.0	1799.5	1800.5	1800.0	1800.0	0.594	Deg F	
Thermocouple Measurement Accuracy, Type B	2000.0	1999.5	2000.5	1999.8	1999.8	0.594	Deg F	
Thermocouple Measurement Accuracy, Type B	2200.0	2199.5	2200.5	2199.9	2199.9	0.594	Deg F	
Thermocouple Measurement Accuracy, Type B	2600.0	2599.5	2600.5	2599.9	2599.9	0.594	Deg F	
Thermocouple Measurement Accuracy, Type B	3000.0	2999.5	3000.5	2999.8	2999.8	0.486	Deg F	
Thermocouple Measurement Accuracy, Type B	3276.0	3275.5	3276.5	3276.0	3276.0	0.486	Deg F	

Technical Maintenance, Inc.
3248 FOREST VIEW ROAD, ROCKFORD, IL 61109
Phone: 779-774-3877 Fax 779-774-3884
www.tmicalibration.com

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Data Sheet

Parameter	Nominal	Minimum	Maximum	As Found	As Left	Uncertainty	Unit	ADJ/FAIL
Thermocouple Output Accuracy, Type E	-328.0	-328.4	-327.6	-327.6	-327.6	0.288	Deg F	
Thermocouple Output Accuracy, Type E	-200.0	-200.4	-199.6	-199.6	-199.6	0.288	Deg F	
Thermocouple Output Accuracy, Type E	32.0	31.6	32.4	32.4	32.4	0.234	Deg F	
Thermocouple Output Accuracy, Type E	600.0	599.6	600.4	600.4	600.4	0.234	Deg F	
Thermocouple Output Accuracy, Type E	1000.0	999.6	1000.4	1000.4	1000.4	0.234	Deg F	
Thermocouple Output Accuracy, Type E	1829.0	1828.6	1829.4	1829.4	1829.4	0.252	Deg F	
Thermocouple Output Accuracy, Type J	-328.0	-328.5	-327.5	-328.5	-328.5	0.252	Deg F	
Thermocouple Output Accuracy, Type J	-200.0	-200.5	-199.5	-200.3	-200.3	0.252	Deg F	
Thermocouple Output Accuracy, Type J	32.0	31.5	32.5	31.5	31.5	0.234	Deg F	
Thermocouple Output Accuracy, Type J	800.0	799.5	800.5	799.7	799.7	0.234	Deg F	
Thermocouple Output Accuracy, Type J	1600.0	1599.5	1600.5	1599.5	1599.5	0.252	Deg F	
Thermocouple Output Accuracy, Type J	2192.0	2191.5	2192.5	2191.5	2191.5	0.252	Deg F	
Thermocouple Output Accuracy, Type K	-328.0	-328.5	-327.5	-327.5	-327.5	0.36	Deg F	
Thermocouple Output Accuracy, Type K	-200.0	-200.5	-199.5	-199.5	-199.5	0.36	Deg F	
Thermocouple Output Accuracy, Type K	32.0	31.5	32.5	32.2	32.2	0.252	Deg F	
Thermocouple Output Accuracy, Type K	600.0	598.0	602.0	600.3	600.3	0.252	Deg F	
Thermocouple Output Accuracy, Type K	1600.0	1598.0	1602.0	1600.1	1600.1	0.306	Deg F	
Thermocouple Output Accuracy, Type K	2498.0	2497.1	2498.9	2498.1	2498.1	0.306	Deg F	
Thermocouple Output Accuracy, Type T	-328.0	-328.5	-327.5	-328.5	-328.5	0.36	Deg F	
Thermocouple Output Accuracy, Type T	-200.0	-200.5	-199.5	-200.3	-200.3	0.36	Deg F	
Thermocouple Output Accuracy, Type T	32.0	31.5	32.5	31.7	31.7	0.27	Deg F	
Thermocouple Output Accuracy, Type T	200.0	199.8	200.2	199.8	199.8	0.234	Deg F	
Thermocouple Output Accuracy, Type T	400.0	399.8	400.2	399.8	399.8	0.234	Deg F	
Thermocouple Output Accuracy, Type T	752.0	751.8	752.2	751.9	751.9	0.234	Deg F	
Thermocouple Output Accuracy, Type R	-50.0	-52.6	-47.4	-50.7	-50.7	1.152	Deg F	
Thermocouple Output Accuracy, Type R	32.0	29.4	34.6	31.7	31.7	0.828	Deg F	
Thermocouple Output Accuracy, Type R	600.0	599.2	600.8	600.1	600.1	0.594	Deg F	
Thermocouple Output Accuracy, Type R	1600.0	1599.2	1600.8	1599.2	1599.2	0.468	Deg F	
Thermocouple Output Accuracy, Type R	2200.0	2199.2	2200.8	2199.3	2199.3	0.432	Deg F	
Thermocouple Output Accuracy, Type R	3200.0	3198.8	3201.2	3199.5	3199.5	0.504	Deg F	
Thermocouple Output Accuracy, Type S	-50.0	-52.0	-48.0	-50.9	-50.9	1.08	Deg F	
Thermocouple Output Accuracy, Type S	32.0	30.0	34.0	31.1	31.1	0.81	Deg F	
Thermocouple Output Accuracy, Type S	600.0	599.2	600.8	599.6	599.6	0.63	Deg F	
Thermocouple Output Accuracy, Type S	1600.0	1599.2	1600.8	1599.5	1599.5	0.486	Deg F	
Thermocouple Output Accuracy, Type S	2200.0	2199.2	2200.8	2199.7	2199.7	0.486	Deg F	
Thermocouple Output Accuracy, Type S	3200.0	3199.2	3200.8	3199.9	3199.9	0.558	Deg F	
Thermocouple Output Accuracy, Type N	32.0	31.6	32.4	31.6	31.6	0.27	Deg F	
Thermocouple Output Accuracy, Type N	600.0	599.6	600.4	599.8	599.8	0.252	Deg F	
Thermocouple Output Accuracy, Type N	1400.0	1399.3	1400.7	1399.7	1399.7	0.252	Deg F	
Thermocouple Output Accuracy, Type N	1600.0	1599.3	1600.7	1599.7	1599.7	0.288	Deg F	
Thermocouple Output Accuracy, Type N	2000.0	1999.3	2000.7	1999.5	1999.5	0.288	Deg F	
Thermocouple Output Accuracy, Type N	2370.0	2369.2	2370.8	2369.9	2369.9	0.288	Deg F	
Thermocouple Output Accuracy, Type B	150.0	135.1	164.9	145.6	145.6		Deg F	
Thermocouple Output Accuracy, Type B	1200.0	1198.8	1201.2	1198.8	1198.8	0.738	Deg F	
Thermocouple Output Accuracy, Type B	1600.0	1599.2	1600.8	1599.2	1599.2	0.594	Deg F	
Thermocouple Output Accuracy, Type B	2000.0	1999.5	2000.5	1999.5	1999.5	0.594	Deg F	
Thermocouple Output Accuracy, Type B	2600.0	2599.5	2600.5	2599.5	2599.5	0.594	Deg F	

Certificate of Calibration

Data Sheet

Parameter	Nominal	Minimum	Maximum	As Found	As Left	Uncertainty	Unit	ADJ/FAIL
Thermocouple Output Accuracy, Type B	3276.0	3275.5	3276.5	3275.5	3275.5	0.486	Deg F	

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www.tmicalibration.com

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