

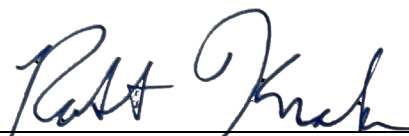
SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

GeoCorp, Inc. 9010 River Road Huron, OH 44839 Ms. Noreen Roth Phone: 419-433-1101 Fax: 419-433-1102 E-mail: nmr@geocorpinc.com URL: http://www.geocorpinc.com	Fields of Calibration Thermodynamic Electromagnetics – DC/Low
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CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) Notes 1,2

Measured Parameter or Device Calibrated	Range	Expanded Uncertainty Note 3	Remarks
THERMODYNAMIC			
RESISTANCE THERMOMETRY (20/T07)			
RTD Calibration PT385 100 Ohm	-196 °C -95 °C to < 0 °C 0 °C to 100 °C	0.38 °C 0.27 °C 0.28 °C	
THERMOCOUPLES (20/T11)			
Type S	0 °C to 1093 °C > 1093 °C to 1500 °C > 1500 °C to 1600 °C	0.78 °C 1.5 °C 3.1 °C	NIST Type S Reference TC
Type S	0 °C to 1093 °C > 1093 °C to 1500 °C > 1500 °C to 1600 °C	1.1 °C 1.7 °C 3.2 °C	Type S Primary TC
Type T	-196 °C -80 °C to < 0 °C 0 °C to 400 °C	0.50 °C 0.50 °C 0.95 °C	For temperatures below 0°C, comparison to a platinum resistance thermometer is performed
Type B	450 °C to 1093 °C > 1093 °C to 1500 °C > 1500 °C to 1600 °C	1.1 °C 1.7 °C 3.2 °C	For temperatures at or Above 0 °C, comparison to a Primary Type S thermocouple is performed
Type E	-196 °C -80 °C to < 0 °C 0 °C to 1000 °C	0.49 °C 0.49 °C 0.95 °C	

2026-09-01 through 2027-09-30
Effective dates


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CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) Notes 1,2

Measured Parameter or Device Calibrated	Range	Expanded Uncertainty ^{Note 3}	Remarks
Type J	-196 °C -80 °C to < 0 °C 0 °C to 760 °C	0.50 °C 0.49 °C 0.95 °C	
Type K	-196 °C -80 °C to < 0 °C 0 °C to 1093 °C > 1093 °C to 1344 °C	0.50 °C 0.50 °C 0.95 °C 1.6 °C	
Type N	-196 °C -80 °C to < 0 °C 0 °C to 1093 °C > 1093 °C to 1300 °C	0.50 °C 0.50 °C 0.95 °C 1.6 °C	
Type R	0 °C to 1 093 °C > 1093 °C to 1500 °C > 1500 °C to 1600 °C	1.1 °C 1.7 °C 3.2 °C	

ELECTROMAGNETICS – DC/LOW FREQUENCY

DC VOLTAGE (20/E06)

Measuring Equipment DC Voltage - Source	(-10 to 100) mV	2.0 µV	Fluke 5730A
Thermocouple Simulation- Source Type S	0 °C to 94 °C 94 °C to 427 °C 427 °C to 872 °C 872 °C to 1316 °C 1316 °C to 1766 °C	0.51 °C 0.51 °C 0.33 °C 0.31 °C 0.36 °C	Calibration by comparison to Fluke 7526A calibrator
Type T	-200 °C to -157°C -157 °C to < 0 °C 0 °C to 205 °C 205 °C to 372 °C	0.28 °C 0.26 °C 0.14 °C 0.14 °C	
Type B	600 °C to 1205 °C 1205 °C to 1819 °C	0.46 °C 0.36 °C	

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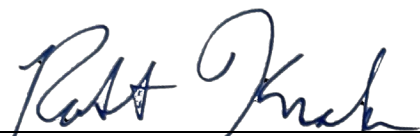


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CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) Notes 1,2

Measured Parameter or Device Calibrated	Range	Expanded Uncertainty Note 3	Remarks
Type E	-200 °C to -157°C -157 °C to < 0 °C 0 °C to 260 °C 260 °C to 872 °C	0.22 °C 0.21 °C 0.13 °C 0.14 °C	
Type J	-200 °C to -157°C -157 °C to < 0 °C 0 °C to 372 °C 372°C to 760°C	0.25 °C 0.22 °C 0.14°C 0.14°C	
Type K	-200 °C to -157°C -157 °C to < 0 °C 0 °C to 538 °C 538 °C to 1316 °C	0.25 °C 0.24 °C 0.14 °C 0.18 °C	
Type N	-200 °C to -157 °C -157 °C to < 0 °C 0 °C to 538 °C 538 °C to 1300 °C	0.36 °C 0.34 °C 0.17 °C 0.17 °C	
TYPE R	0 °C to 94 °C 94 °C to 427 °C 427 °C to 872 °C 872 °C to 1316 °C 1316 °C to 1766 °C	0.53 °C 0.53 °C 0.32 °C 0.30 °C 0.32 °C	
Thermocouple Simulation-Measure Type S	0 °C to 94 °C 94 °C to 427 °C 427 °C to 872 °C 872 °C to 1316 °C 1316 °C to 1766 °C	0.50 °C 0.49 °C 0.32 °C 0.30 °C 0.35 °C	Calibration by comparison to Fluke 7526A calibrator
Type T	-200 °C to -157°C -157 °C to < 0 °C 0 °C to 205 °C 205 °C to 372 °C	0.28 °C 0.26 °C 0.14 °C 0.14 °C	

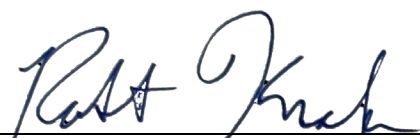
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CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) Notes 1,2

Measured Parameter or Device Calibrated	Range	Expanded Uncertainty Note 3	Remarks
Type B	600 °C to 1205 °C 1205 °C to 1819 °C	0.46 °C 0.37 °C	
Type E	-200 °C to -157°C -157 °C to < 0 °C 0 °C to 260 °C 260 °C to 872 °C	0.22 °C 0.21 °C 0.13 °C 0.14 °C	
Type J	-200 °C to -157°C -157 °C to < 0 °C 0 °C to 372 °C 372°C to 760°C	0.25 °C 0.22 °C 0.14°C 0.14°C	
Type K	-200 °C to -157°C -157 °C to < 0 °C 0 °C to 538 °C 538 °C to 1316 °C	0.25 °C 0.24 °C 0.14 °C 0.18 °C	
Type N	-200 °C to -157 °C -157 °C to < 0 °C 0 °C to 538 °C 538 °C to 1300 °C	0.36 °C 0.34 °C 0.17 °C 0.17 °C	
TYPE R	0 °C to 94 °C 94 °C to 427 °C 427 °C to 872 °C 872 °C to 1316 °C 1316 °C to 1766 °C	0.51 °C 0.51 °C 0.30 °C 0.28 °C 0.31 °C	
RTD Simulation – PT385 100 Ohm Source and Measure	-200 °C to 800 °C	0.01 °C	
END			

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Notes

Note 1: A Calibration and Measurement Capability (CMC) is a description of the best result of a calibration or measurement (result with the smallest uncertainty of measurement) that is available to the laboratory's customers under normal conditions, when performing more or less routine calibrations of nearly ideal measurement standards or instruments. The CMC is described in the laboratory's scope of accreditation by: the measurement parameter/device being calibrated, the measurement range, the uncertainty associated with that range (see note 3), and remarks on additional parameters, if applicable.

Note 2: Calibration and Measurement Capabilities are traceable to the national measurement standards of the U.S. or to the national measurement standards of other countries and are thus traceable to the internationally accepted representation of the appropriate SI (Système International) unit.

Note 3: The uncertainty associated with a measurement in a CMC is an expanded uncertainty with a level of confidence of approximately 95 %, typically using a coverage factor of $k = 2$. However, laboratories may report a coverage factor different than $k = 2$ to achieve the 95 % level of confidence. Units for the measurand and its uncertainty are to match. Exceptions to this occur when marketplace practice employs mixed units, such as when the artifact to be measured is labeled in non-SI units and the uncertainty is given in SI units (Example: 5 lb weight with uncertainty given in mg).

Note 3a: The uncertainty of a specific calibration by the laboratory may be greater than the uncertainty in the CMC due to the condition and behavior of the customer's device and specific circumstances of the calibration. The uncertainties quoted do not include possible effects on the calibrated device of transportation, long term stability, or intended use.

Note 3b: As the CMC represents the best measurement results achievable under normal conditions, the accredited calibration laboratory shall not report smaller uncertainty of measurement than that given in a CMC for calibrations or measurements covered by that CMC.

Note 3c: As described in Note 1, CMCs cover calibrations and measurements that are available to the laboratory's customers under *normal conditions*. However, the laboratory may have the capability to offer special tests, employing special conditions, which yield calibration or measurement results with lower uncertainties. Such special tests are not covered by the CMCs and are outside the laboratory's scope of accreditation. In this case, NVLAP requirements for the labeling, on calibration reports, of results outside the laboratory's scope of accreditation apply. These requirements are set out in Annex A.5 of NIST Handbook 150, Procedures and General Requirements.

Note 4: Uncertainties associated with field service calibration may be greater as they incorporate on-site environmental contributions, transportation effects, or other factors that affect the measurements. (This note applies only if marked in the body of the scope.)

Note 5: Values listed with percent (%) are percent of reading or generated value unless otherwise noted.

Note 6: NVLAP accreditation is the formal recognition of specific calibration capabilities. Neither NVLAP nor NIST guarantee the accuracy of individual calibrations made by accredited laboratories.

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