

# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

MadgeTech, Inc. 6 Warner Road Warner, NH 03278

Fulfills the requirements of

## ISO/IEC 17025:2017

In the field of

## **CALIBRATION**

This certificate is valid only when accompanied by a current scope of accreditation document. The current scope of accreditation can be verified at <a href="www.anab.org">www.anab.org</a>.

202

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 28 June 2021 Certificate Number: AC-2481





### SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

### MadgeTech, Inc.

6 Warner Road Warner, NH 03278 Dianne Moulton (603) 456-2011 dianne@madgetech.com

### **CALIBRATION**

Valid to: June 28, 2021 Certificate Number: AC-2481

#### Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Temperature – Measuring Equipment	(-84 to 5) °C	0.039 °C	Fluke 5616 PRT with Fluke 1502A Indicator, Fluke 7381 Deep-Well Bath with Methanol
	(5 to 80) °C	0.039°C	Fluke 5616 PRT with Fluke 1502A Indicator, Fluke 7321 Deep-Well Bath with Distilled Water
	(80 to 140) °C	0.036°C	Fluke 5616 PRT with Fluke 1502A Indicator, Fluke 7321 Deep-Well Bath with Silicone Oil
	(10 to 24) °C	0.25 °C	Direct Comparison using Vaisala HMP155 Temperature/ Humidity Probe and Indicator, Environmental Chamber
	(24 to 26) °C	0.32 °C	Direct Comparison using Vaisala HMP155 Temperature/ Humidity Probe and Indicator, Environmental Chamber
	(26 to 50) °C	0,87 °C	Direct Comparison using Vaisala HMP155 Temperature/ Humidity Probe and Indicator, Environmental Chamber
	(50 to 60) °C	0.56 °C	Direct Comparison using Vaisala HMP155 Temperature/ Humidity Probe and Indicator, Environmental Chamber
	-196°C	0.059 °C	LN <sub>2</sub> Dewar, Fluke 5616 PRT with Fluke 1502A Indicator





#### Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Relative Humidity	(25 to 75) % RH	1.4 % RH	Direct Comparison using Vaisala HMP 155 Temperature/Humidity Probe and Indicator

#### Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Pneumatic Pressure	(0 to 500) psig (0.5 to 500) psia	0.084 psi 0.093 psi	Direct comparison using Mensor CPC6000 with MadgeTech Fixture 4020
Pneumatic Pressure	(1.5 to 72.5) psia	0.063 psi	Direct comparison using Mensor CPC6000 with MadgeTech Fixture 4010

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (*k*=2), corresponding to a confidence level of approximately 95%.

#### Notes:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-2481.



R. Douglas Leonard Jr., VP, PILR SBU

