

CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

TPF, Inc. 313 S. Wayne Avenue Cincinnati, OH 45215

Fulfills the requirements of

ISO/IEC 17025:2017

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

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 www.anab.org.



R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 07 February 2023 Certificate Number: AC-1208









SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017 AND ANSI/NCSL Z540-1-1994 (R2002)

TPF, Inc.

313 S. Wayne Avenue Cincinnati, OH 45215 Eric Knudten 513-761-9968

CALIBRATION

Certificate Number: AC-1208

Valid to: February 7, 2023

Mass and Mass Related

Version 005 Issued: December 29, 2020

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|---------------------|--|--|---|
| Pressure | Up to 60 inH ₂ O | 0.095 inH ₂ O | Tri-Mount U-Tube Water Manometer |
| | Up to 30 inHg Vacuum | 0.067 inHg | Meriam Mercury Manometer |
| | Up to 70 inHg | 0.079 inHg | Meriam Mercury Manometer |
| | Up to 20 psi (20 to 50) psi (50 to 100) psi | 0.015 psi 0.019 psi 0.026 psi | Mensor Test Gage Nitrogen |
| | Up to 150 psi (150 to 300) psi (300 to 1 000) psi | 0.24 psi 0.48 psi 1.4 psi | Heise Test Gage Nitrogen |
| | Up to 1 000 psi (1 000 to 5 000) psi (5 000 to 10 000) psi | 0.4 psi 2 psi 3.8psi | Ametek DWT Oil |

ANAB ANSI National Accreditation Board



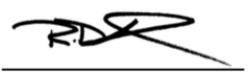
Thermodynamic

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|---------------------|---|--|--|
| Temperature | (-50 to -1) °C (0 to 99) °C (100 to 199) °C (200 to 249) °C (250 to 299) °C (300 to 399) °C (400 to 499) °C (500 to 599) °C (600 to 660) °C | 0.06 °C 0.02 °C 0.03 °C 0.03 °C 0.04 °C 0.13 °C 0.13 °C 0.13 °C | Hart Scientific PRT |

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:

This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1208.



R. Douglas Leonard Jr., VP, PILR SBU

Version 005 Issued: December 29, 2020

