



# 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](http://www.anab.org).

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 07 February 2023

Certificate Number: AC-1208



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory  
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

**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**

Valid to: **February 7, 2023**

Certificate Number: **AC-1208**

**Mass and Mass Related**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Pressure	Up to 60 inH <sub>2</sub> O	0.095 inH <sub>2</sub> 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

**Thermodynamic**

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

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-1208.



R. Douglas Leonard Jr., VP, PILR SBU