



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Mass Flow Technology, Inc.
295 South Post Oak Road, Unit A, Sulphur, LA 70663

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2005

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated January 2009):

Laboratory and Field Calibration of Flow, Pressure and Temperature Indicating and Recording Devices
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation Body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President/Operations Manager

Initial Accreditation Date:

June 3, 2003

Issue Date:

December 13, 2017

Expiration Date:

January 31, 2020

Accreditation No.:

29291

Certificate No.:

L17-562-2

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjilabs.com



Certificate of Accreditation: Supplement

Mass Flow Technology, Inc.

295 South Post Oak Road, Unit A, Sulphur, LA 70663
 Contact Name: Eddie Daily Phone: 281-427-7284

Accreditation is granted to the facility to perform the following calibrations:

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type J ^{FO}	0 °C to 1 200 °C	1.0 °C	Electrical Simulation of Thermocouple Output Fluke 744
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type K ^{FO}	0 °C to 1 370 °C	1.0 °C	
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type E ^{FO}	0 °C to 950 °C	1.0 °C	

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Flow Devices –Process ^{FO}	9 kg/min to 3 000 kg/min (19.8 lb/min to 6 613.8 lb/min)	0.08 % of reading	TSM-4K Master Meter
	9 l/min to 3 000 l/min (2.4 gal/min to 792.5 gal/min)		
Pressure Gauges and Pressure Transmitters ^{FO}	0.05 psi to 30 psi	0.015 psi	Fluke 744 w/700P05
	24 psi to 10 000 psi	8 psi	Fluke-744 w/700P31
	10 psi to 3 000 psi	2.4 psi	Fluke-744 w/700P29
	-13 psi to 200 psi	0.14 psi	Fluke 744 w/700PD7

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.



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Accreditation is granted to the facility to perform the following calibrations:

3. The presence of a superscript FO means that the laboratory performs calibration of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this calibration at its fixed location and onsite at customer locations.
4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.

