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Certificate of Calibration

Calibration Performed By:
J-TEC Associates, Inc.
5005 Blairs Forest Lane NE, Suite L
Cedar Rapids, IA 52402

For:
System C Instrumentation
Zi Du Bois Des Lots Allee De Chamille
St Paul, Trois Chateaux 26130 France

Serial Number: 12337
Sales Order #: 4698
As Received

Gage Description: Inline Flowmeter
Model Number: VF563A
Part Number: DAA0325-0003

Performed By: T.Tate - Tech
Calibration Date: 1/7/2020
Calibration Result: Fail

Procedure Used: TCA0020
Accuracy: $\pm 2.0\%$ FS

Meter Range: 7.1-283.2 L/min
Gas: Air
Pressure: 760 (mmHg) A
Temperature: 20.0 °C

Full Scale Spec: 283.2 L/min
Density: 1.2041 kg/m^3
Viscosity: 1.831E-05 kg/(m*s)
RH: 20-80%

Calibration Data:

Flow Rate ACFM	Flow Rate LPM	Freq (Hz)	Ideal Volts	Min (-) Volts	Max (+) Volts	Actual Volts	Accuracy (% Full Scale)	Passed (Yes/No)
0.25	7.08	126.0	0.125	0.025	0.225	0.138	0.26	Y
0.71	20.23	374.9	0.357	0.257	0.457	0.357	0.00	Y
1.43	40.45	755.3	0.714	0.614	0.814	0.708	-0.12	Y
2.14	60.68	1106.9	1.071	0.971	1.171	1.056	-0.31	Y
2.86	80.90	1446.2	1.429	1.329	1.529	1.426	-0.05	Y
3.57	101.13	1810.8	1.786	1.686	1.886	1.807	0.43	Y
4.29	121.35	2156.6	2.143	2.043	2.243	2.171	0.56	Y
5.00	141.58	2463.9	2.500	2.400	2.600	2.504	0.09	Y
5.71	161.81	2787.2	2.857	2.757	2.957	2.854	-0.06	Y
6.43	182.03	3110.5	3.214	3.114	3.314	3.203	-0.22	Y
7.14	202.26	3434.2	3.571	3.471	3.671	3.557	-0.29	Y
7.86	222.48	3759.7	3.929	3.829	4.029	3.930	0.02	Y
8.57	242.71	4058.9	4.286	4.186	4.386	4.255	-0.61	Y
9.29	262.93	4349.9	4.643	4.543	4.743	4.566	-1.54	Y
10.00	283.16	4640.8	5.000	4.900	5.100	4.877	-2.46	N

Equipment Used To Calibrate Gage:

Manufacture/Description	Model	ID	Last Cal:	Due for Cal:
Daytronic Strain Gauge	3270	456	12/5/2019	6/30/2020
Fluke Digital Multimeter	8050A	470	4/1/2019	4/30/2020
Meriam Manometer	DP200I	756	7/1/2019	6/30/2020
Omega Digital Thermometer	DP41-TC	744	4/3/2019	4/30/2020
Setra Pressure Transducer	ASL1-010WD	758	10/23/2019	4/30/2020
Cox Sub-Sonic Nozzle Set	210	742	4/2/2019	4/30/2021

Approved By:



Parameters listed were checked against master traceable to the National Institute of Standards & Technology. It is further certified that this calibration was performed in accordance with requirements of ISO/IEC 17025.

All items are considered to be in serviceable condition unless otherwise stated on this certification. The results relate only to the item calibrated. Excessive use, mishandling, environmental conditions or other factors may cause the calibrated item to fall out of tolerance.

This certificate shall not be reproduced except in full without the written approval of the originating metrology laboratory.

The measurement uncertainty is estimated to be 1.3% of full scale.

Reported uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k=2$. Actual measurements are recorded as is, uncertainty is not taken into account in determining a pass or fail decision.

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ISO/IEC 17025