

Certificate of Calibration



Device Under Test

Manufacturer: Omega Engineering, Inc.
Sales Order: SO382946
Serial Number: 402253
Model Number: FMA-1609A-I2
Range: 50.000 SLPM
Process Gas: Air (Selectable)
Calibration Gas: Air
Temperature: 27.78°C
Humidity: 42%
Software Version: 10v03.0-R24

Pressure Range: 160.00 PSIA
Pressure Accuracy: $\pm 0.5\%$ of full scale
Temperature Accuracy: $\pm 0.75^\circ\text{C}$
Standard Temp. & Pressure: 25.00°C, 14.69595 PSIA
Normal Temp. & Pressure: 0.00°C, 14.69595 PSIA
Calibration Procedure: DOC-AUTOCAL-GASFLOW/Rev. 95
Calibration Date: 2022-07-27
Certificate Number: 414240
Cal. due 1 yr. after receipt:

Equipment Used

All test equipment used for calibration is NIST traceable.

Type	Tool Name	Manufacturer/Model	Uncertainty	Due Date
Flow	TOOL-FLOW107	Alicat - MCPM-60SLPM-D	$\pm 0.32\%$ reading or $\pm 0.02\%$ full scale, whichever is greater.	2022-08-09
Pressure	TOOL-PRESSURE21-145PSIG	Alicat - P-100PSIG-D	0.1% of reading	2022-12-09
Temperature	TOOL-TEMP15	ASL - F200-A-2+Probe	$\pm 0.02^\circ\text{C}$	2023-12-07
Voltage	TOOL-AIOC29	Alicat - AIOC	$\pm 2.5\text{mV}$ and $4\mu\text{A}$	2023-02-16

Calibration

Accuracy: $\pm 0.8\%$ of reading + $\pm 0.2\%$ of full scale.
Full Scale Range: 50.000 SLPM
Calibration Pressure: 14.33 PSIA

Output 1 Configuration

8-pin mini-DIN - Pin #1

Output 2 Configuration

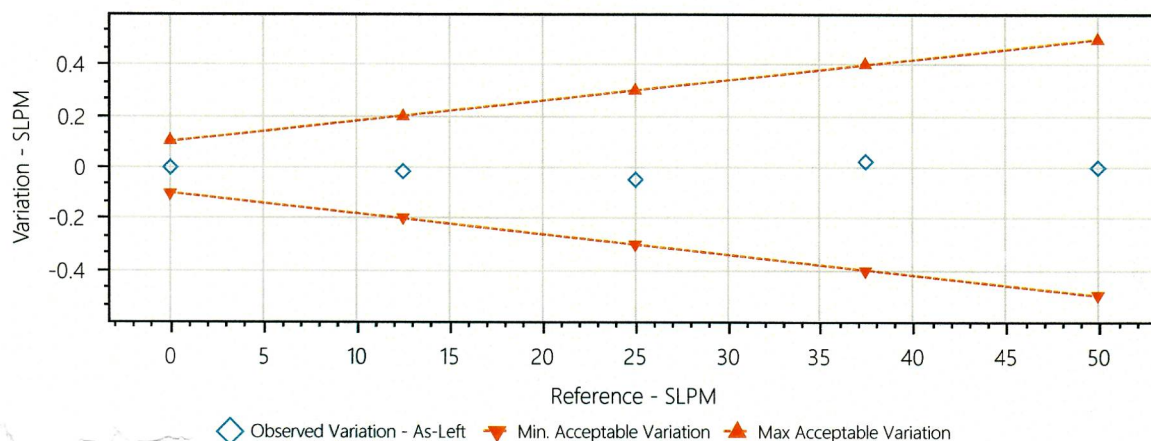
8-pin mini-DIN - Pin #2

Output 3 Configuration

8-pin mini-DIN - Pin #6

As-Left					
Indicated	Actual	In Tolerance	Output 1	Output 2	Output 3
0.000	0.000	Yes	4.00 mA	4.00 mA	0.000 Vdc
12.488	12.501	Yes	8.00 mA	8.00 mA	1.249 Vdc
24.953	25.001	Yes	11.98 mA	11.98 mA	2.495 Vdc
37.498	37.474	Yes	16.00 mA	16.00 mA	3.750 Vdc
49.994	49.994	Yes	20.00 mA	20.00 mA	4.999 Vdc

Error Chart



Calibrated By: Lazaro Lopez

2022-07-27

QC Signature:

[Signature]

