

Certificate of Calibration

7641 N. Business Park Dr., Tucson, AZ 85743 U.S.A., 1.888.290.6060



Device Under Test

Manufacturer:	Alicat Scientific, Inc.	Humidity:	31%
Customer:	Alicat Scientific, Inc.	Control Algorithm:	P=75 D=7500 I=0
Service Order:	R39321	Software Version:	8v10.0-R23
Serial Number:	206797	Pressure Range:	160.00 PSIA
Model Number:	MC-5SLPM-D	Pressure Accuracy:	±0.5% of reading
Adder Codes:	CM, 10IN, GAS: N2, RANGE (4 NLPM), P1: 80 PSIG, P2: 0 PSIG	Temperature Accuracy:	±0.75°C
Range:	4.0000 NLPM	Standard Temp. & Pressure:	25.00°C, 14.69595 PSIA
Process Gas:	N2 (Selectable)	Normal Temp. & Pressure:	0.00°C, 14.69595 PSIA
Calibration Gas:	Air	Calibration Procedure:	DOC-AUTOCAL-GASFLOW/Rev. 94
Temperature:	25.98°C	Certificate Number:	325158

Equipment Used

All test equipment used for calibration is NIST traceable.

Type	Tool Name	Manufacturer/Model	Uncertainty	Due Date
Flow	TOOL-FLOW70	Alicat - MCM-5SLPM-D	±0.32% reading or ±0.02% full scale, whichever is greater.	2020-12-20
Temperature	TOOL-TEMP15	ASL - F200-A-2+Probe	±0.02°C	2020-11-13
Voltage	TOOL-AIOC12	Alicat - AIOC	± 2.5mV and 4µA	2021-09-11

Calibration

Accuracy: ±0.6% of reading or ±0.1% of full scale, whichever is greater

Full Scale Range: 4.0000 NLPM

Calibration Pressure: 14.95 PSIA

Valve Adjustment

P1:	80 PSIG
P2:	0 PSIG

Output 1 Configuration

8-pin mini-DIN - Pin #1

Output 2 Configuration

8-pin mini-DIN - Pin #2

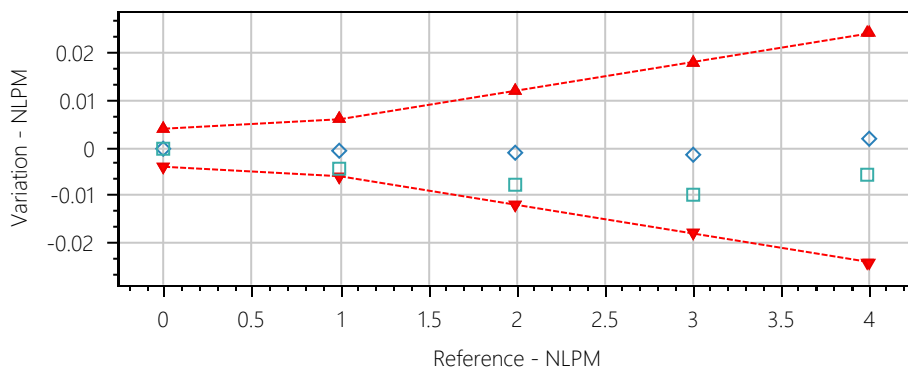
Output 3 Configuration

8-pin mini-DIN - Pin #6

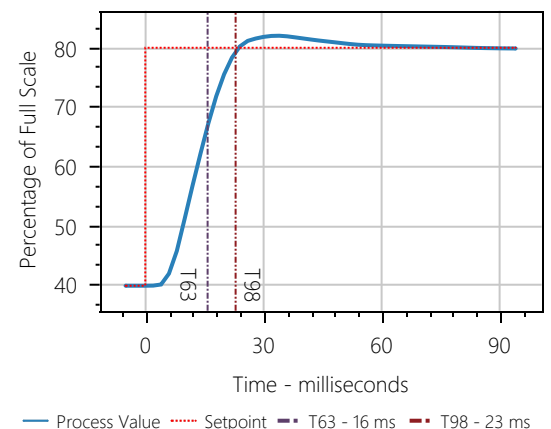
As-Found		
Indicated	Actual	In Tolerance
0.0000	0.0000	Yes
0.9941	0.9985	Yes
1.9911	1.9989	Yes
2.9898	2.9998	Yes
3.9927	3.9983	Yes

As-Left					
Indicated	Actual	In Tolerance	Output 1	Output 2	Output 3
0.0000	0.0000	Yes	4.00 mA	5.120 Vdc	0.000 Vdc
0.9992	0.9997	Yes	8.00 mA	5.120 Vdc	1.249 Vdc
1.9981	1.9990	Yes	11.99 mA	5.120 Vdc	2.498 Vdc
2.9986	3.0000	Yes	15.99 mA	5.120 Vdc	3.748 Vdc
4.0009	3.9990	Yes	20.00 mA	5.120 Vdc	5.001 Vdc

Error Chart



Control Response Chart



NOTES: Analog setpoint configured for 0-10Vdc.

