

# Certificate of Calibration

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## Device Under Test

<b>Manufacturer:</b>	Alicat Scientific, Inc.	<b>Humidity:</b>	29%
<b>Customer:</b>	Finesse Solutions, Inc (ThermoFisher Scientific)	<b>Software Version:</b>	8v30.0-R23
<b>Sales Order:</b>	SO363029	<b>Pressure Range:</b>	160.00 PSIA
<b>Serial Number:</b>	261973	<b>Pressure Accuracy:</b>	±0.5% of reading
<b>Model Number:</b>	M-500SCCM-D	<b>Temperature Accuracy:</b>	±0.75°C
<b>Adder Codes:</b>	5M, GAS: N2, P2: 30 PSIA, STP: 20°C, HC	<b>Standard Temp. &amp; Pressure:</b>	20.00°C, 14.69595 PSIA
<b>Range:</b>	500.00 SCCM	<b>Normal Temp. &amp; Pressure:</b>	0.00°C, 14.69595 PSIA
<b>Process Gas:</b>	N2 (Selectable)	<b>Calibration Procedure:</b>	DOC-AUTOCAL-GASFLOW/Rev. 94
<b>Calibration Gas:</b>	Air	<b>Certificate Number:</b>	325918
<b>Temperature:</b>	25.88°C		

## Equipment Used

All test equipment used for calibration is NIST traceable.

Type	Tool Name	Manufacturer/Model	Uncertainty	Due Date
Flow	TOOL-MOLBOX2	DH Instruments - Molbox 1 A...	NA \ Determined by Molbloc	2021-12-03
Flow	TOOL-MOLBLOC3	DH Instruments - IE3-VCR-V-Q	± 0.2%	2020-12-05
Pressure	TOOL-PRESSURE21-145PSIG	Alicat - P-100PSIG-D	0.1% of reading	2020-12-11
Temperature	TOOL-TEMP15	ASL - F200-A-2+Probe	±0.02°C	2020-11-13
Voltage	TOOL-AIOC21	Alicat - AIOC	± 2.5mV and 4µA	2021-10-01

## Calibration

**Accuracy:** ±0.5% of reading or ±0.1% of full scale, whichever is greater

**Full Scale Range:** 500.00 SCCM

**Calibration Pressure:** 14.00 PSIA

### Output 1 Configuration

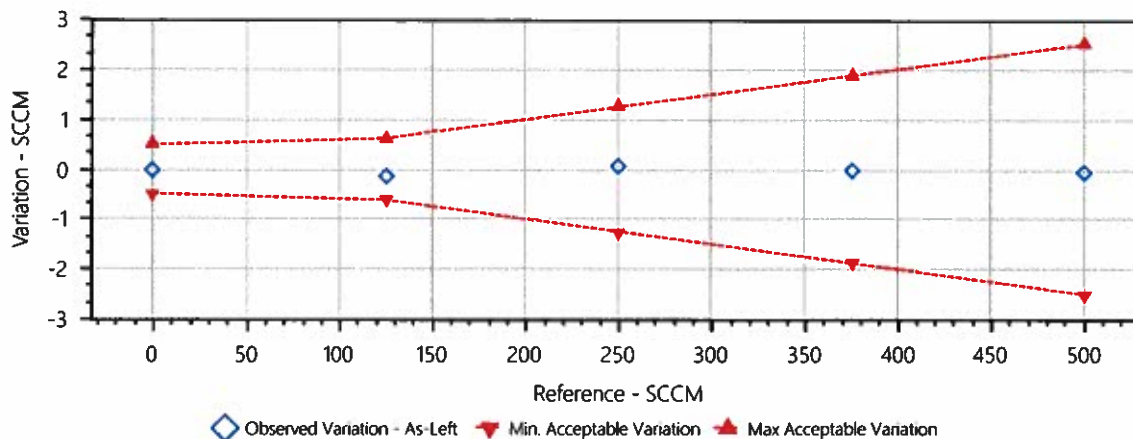
8-pin mini-DIN - Pin #6

### Output 2 Configuration

8-pin mini-DIN - Pin #2

As-Left				
Indicated	Actual	In Tolerance	Output 1	Output 2
0.00	0.00	Yes	0.000 Vdc	5.120 Vdc
125.08	125.21	Yes	1.251 Vdc	5.120 Vdc
250.36	250.29	Yes	2.504 Vdc	5.120 Vdc
375.47	375.49	Yes	3.755 Vdc	5.120 Vdc
500.22	500.30	Yes	5.002 Vdc	5.120 Vdc

Error Chart



Calibrated By: Benny Lopez

2020-10-29

QC Signature:

