

# Certificate of Calibration



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## Device under test

<b>Manufacturer:</b>	Alicat Scientific, Inc.	<b>Calibrated By:</b>	Jordan Saul
<b>Customer:</b>	Premier Control Technologies Ltd	<b>Calibration Date:</b>	10/04/2024
<b>Service Order:</b>	DEMO	<b>Process Gas:</b>	Air
<b>Sale Order:</b>	DEMO	<b>Calibration Gas:</b>	Air
<b>Serial Number:</b>	207026	<b>Pressure Range:</b>	160 PSIA
<b>Model Number:</b>	MCR-100SLPM-D-DB15	<b>Pressure Accuracy:</b>	±0.5% of reading
<b>Adder Codes:</b>	CM,RIN,CIN,GAS:Air	<b>Standard Temp. &amp; Pressure:</b>	25.00°C, 14.69595 PSIA
<b>Certificate Number:</b>	1118	<b>Normal Temp. &amp; Pressure:</b>	0.00°C, 14.69595 PSIA

## Equipment Used

<b>Master Unit</b>	FLOW100
<b>Manufacturer/Model</b>	Alicat / MCM-100SLPM-D-IB-SC
<b>MCM Serial Numbers</b>	185845/185844
<b>Calibration Due Date</b>	04/01/2025
<b>Master Device Accuracy</b>	±(0.35% of Reading or 0.07% of Full Scale, whichever is greater)

## Calibration

<b>Accuracy of Reading ±</b>	0.80%
<b>Accuracy of Full Scale ±</b>	0.2%
<b>Range and Units Of Measure</b>	100 SLPM
<b>Calibration Gas:</b>	Air
<b>Calibration Procedure:</b>	DOC-CAL-GASFLOW/PCT01

All Test Equipment Used For Calibration Is NIST Traceable

### As Found

Indicated	Actual	In Tolerance
0.000	0.000	Yes
24.683	24.961	Yes
49.528	50.049	Yes
74.554	74.897	Yes
90.797	90.688	Yes

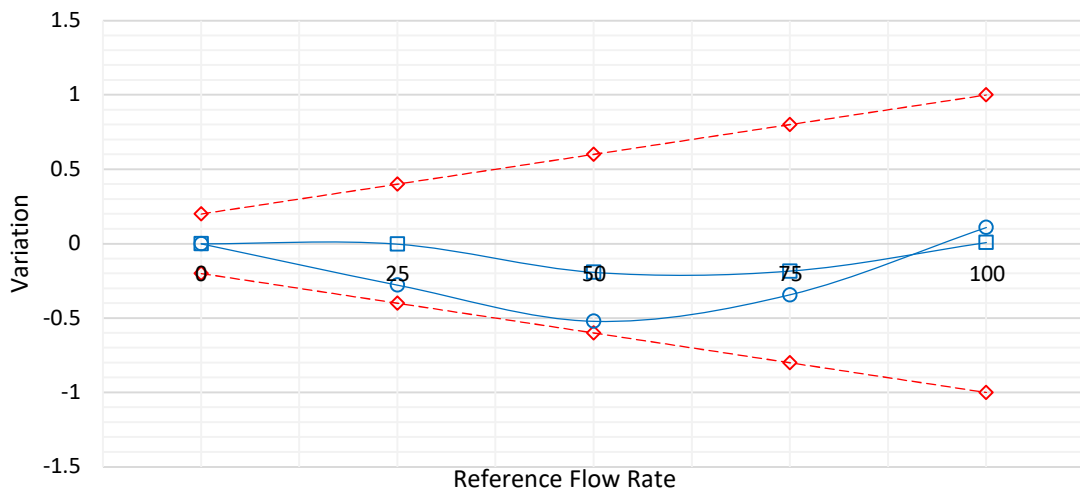
### As Left

Indicated	Actual	Actual variance	Acceptable Variance	In Tolerance
0.000	0.000	0.000	0.000	Yes
24.989	24.991	0.003	0.400	Yes
49.823	50.014	0.192	0.599	Yes
74.748	74.933	0.185	0.798	Yes
99.842	99.833	0.008	0.999	Yes

## Technician Notes:

As found results within tolerance. Device opened and debris found. Device disassembled, LFE stack cleaned, and reassembled. Absolute pressure corrected and standard calibration performed.

## Error Chart



---◇--- Min Acceptable Variance    ---◇--- Max Acceptable Variance    ---○--- As found variance    ---□--- As left variance

*J. Saul*

Jordan Saul  
Service Engineer



Alicat Scientific Approved Service and Calibration Centre

X *[Signature]*

QC Signature