



NATEC Sensors GmbH
 Postfach 1313 85741 Garching
 eMail: sales@natec-sensors.com
Tel. 089 / 307591-0
Fax 089 / 307591-29

Alicat Scientific, Inc.

7641 N. Business Park Dr., Tucson, AZ 85743 U.S.A., 1.888.290.6060
Calibration Data Sheet
 Certification Number: 119194

Customer:	NATEC Sensors GmbH
Sales Order Number:	SO323173
Serial Number:	116309
Model Number:	MCRW-100SLPM-D-SILICONE
Software Version:	5v08
P/D/I Values:	75 / 14000 / 0
Adder Codes:	10M, 10IN, GAS: Air, DS
Process Gas:	Selectable
Calibration Gas:	Air
Range:	100.0 SLPM
Gas Temperature:	23.1°C
Ambient Humidity:	31%
Calibration Procedure/Rev. #:	DOC-AUTOCAL-GASFLOW/Rev. 87
Calibrated By:	Pablo De La Cruz
Calibration Date:	5/18/2015
Full Scale Pressure:	60.00 PSIA
Full Scale Pressure Accuracy:	+/-0.5% of Full Scale
Temperature Accuracy:	+/-1.5°C
Standard Temp. & Pressure:	25°C, 14.6959 PSIA
Calibration due 1 yr. after receipt:	

Equipment Used

Flow:	TOOL-FLOW3	Pressure:	TOOL-PRESSURE8
Tool Due Date:	6/14/2015	Tool Due Date:	3/9/2016
Manufacturer/Model:	Alicat / MCAL-1E2L	Manufacturer/Model:	Alicat / P-100PSIG-D
Device Uncertainty:	+/- (0.3% Reading + 0.2% F.S.)	Device Uncertainty:	+/- 0.2% of full scale
Temperature:	TOOL-TEMP16	Voltage:	TOOL-CMTR14
Tool Due Date:	3/24/2015	Tool Due Date:	1/15/2016
Manufacturer/Model:	FLUKE 1524	Manufacturer/Model:	Fluke 87-5
Device Uncertainty:	+/- 0.2°C	Device Uncertainty:	+/- (0.1% + 1 digit)

All test equipment used for calibration is NIST traceable.

Calibration

Uncertainty: +/- (0.8% of Reading + 0.2% of Full Scale)
Units of measure: SLPM

Calibration Pressure: Inlet: 0 PSIG
 Outlet: VAC

Output 1 Configuration
 mini-DIN Pin #6

Output 2 Configuration
 mini-DIN Pin #2

D.U.T.	Actual	In Tolerance	Output 1	Output 2
0.0	0.0	Yes	0.000 Vdc	5.12 Vdc
24.9	25.0	Yes	2.490 Vdc	5.12 Vdc
50.0	49.9	Yes	5.00 Vdc	5.12 Vdc
75.0	74.9	Yes	7.50 Vdc	5.12 Vdc
100.0	100.2	Yes	10.00 Vdc	5.12 Vdc

Notes: 0-10V set-point.

Tech Signature:

QC Signature:

Alicat Scientific, Inc. is an ISO 9001:2008 certified company.

CS1 Rev 16 Last Modified 01/18/2013