



Certificate Of Calibration

The following device has been calibrated in accordance with ANSI Z540-1-1994 and ISO/IEC-17025:2017 using instruments traceable to the National Institute of Standards and Technology

COASTAL INSTRUMENTS
 707 ENTERPRISE DRIVE
 BURGAW NC 28425-

STP Conditions: 0.0 °C @ 760 mmHg
 Calibration Temperature: 22.2° C ± 3° C
 He pre-ship leak rate: 0 x 10⁻⁰

Model: BROOKS 5850E
 Serial Number: NC0117202001
 Range: 51 sccm
 Gas: N2
 Inlet Pressure: 20 PSIG
 Outlet Pressure: ATM
 Positioning: HBD
 Calibration Gas: N2, N2 CF = 1
 Calibration Date: 1/27/2020
 Issue Date: 01/27/2020

Initial Inspection

- No visible contamination

Services

- No disassembly required
- Assembled with Viton seals

Parts Replaced

- No parts required

Comments

- We appreciate your business!
- The referenced DUT meets the Coastal Instruments internal quality specification for tolerance

Approved by: S. Bruce Benson, Quality Manager

As Found

Volt	%	Calc. Flow (sccm)	F.S. Dev.	Uncert
0	0	No Flow	0.00%	0.28
1.00	20	no data taken	N/A	0.28
2.00	40	no data taken	N/A	0.28
3.00	60	no data taken	N/A	0.28
4.00	80	no data taken	N/A	0.28
5.00	100	no data taken	N/A	0.28

As Left

Volt	%	Calc. Flow (sccm)	F.S. Dev.	Uncert
0.010	0	No Flow	0.20%	0.28
1.00	20	10.280	0.16%	0.28
2.00	40	20.452	0.10%	0.28
3.00	60	30.578	-0.04%	0.28
4.00	80	40.712	-0.17%	0.28
5.00	100	51.06	0.12%	0.28

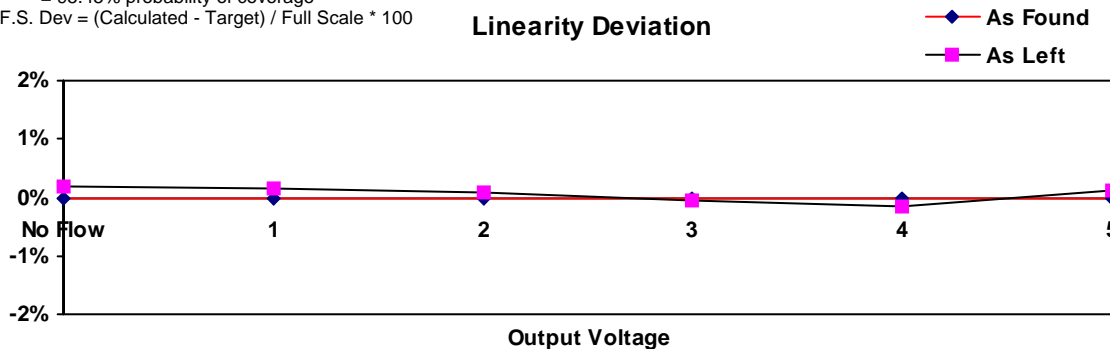
Standard 8032175 1/8/2020

expanded uncertainty of measurement = stated u * k(2)

= 95.45% probability of coverage

% F.S. Dev = (Calculated - Target) / Full Scale * 100

Linearity Deviation



This report not to be reproduced, except in full, without written authorization by Coastal Instruments, Inc.
 The statement of conformity contained herein applies only to the calibration of flow of gas, and the gas flow data represented.
 The results reported herein relate only to the items referenced by serial number above.