

# Traceable Certificate

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## Calibration Report Mass Flow Controller

For:

**Henry Troemner LLC 201 Wolf Drive P.O. Box 87 Thorofare, NJ 08086-0087**

Cert No. 332585 D

The device listed on this calibration report has been tested using the DH Instruments Flow Calibration System. The method for calibration is described in Troemner work instruction TMF-CAL and the reference standards are traceable to National Institute of Standards and Technology (NIST).

Date Received: August 24, 2005  
Calibration Date: August 29, 2005  
Issue Date: August 29, 2005

Calibration Gas: N2  
Process Gas: Air  
K Factor: 1

### As Found Data

#### Device Under Test Information

Manufacturer: Matheson  
Model Number: E1-1A001-E440  
Serial Number: 11073  
Flow Range: 0.000 to 2.000slm @ 70.00F  
Tolerance: 2 %DUTFS  
Pressure: Inlet: 10 psig Outlet: 0 psig

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#### Reference Information

Manufacturer: DH Instruments  
Model Number: Molbox1  
Serial Number: 554  
ID Number: Cert. #35051  
Flow Range: 10.000 slm  
Molbloc S/N: 1490

Uncertainty of Measurement 0.2% of Reading

### Environmental Conditions During Test

Ambient Temp.: 24.0°C

Ambient Pressure: 760.88mmHG

77.9% RH

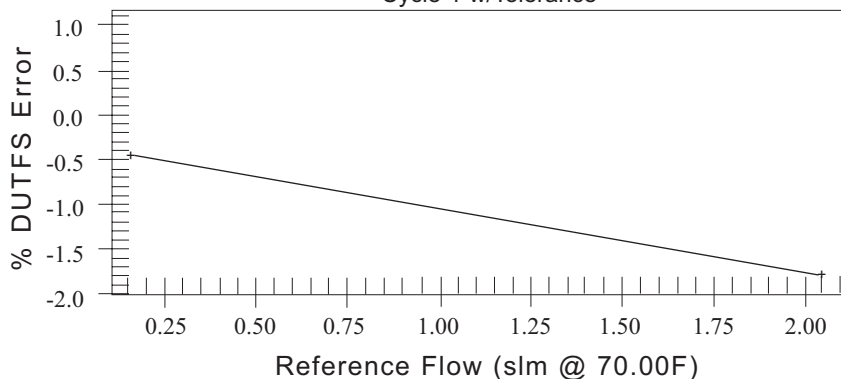
### Test Data

| Command (% FS) | Signal Output | Actual Flow | Error (% FS) | Status |
|----------------|---------------|-------------|--------------|--------|
| 0.200          | 0.200         | 0.2093      | -0.464       | OK     |
| 2.000          | 2.000         | 2.0372      | -1.861       | OK     |

“OK” indicates in tolerance condition “T” indicates out of tolerance condition

### % DUTFS Error vs. Reference Flow

Cycle 1 w/Tolerance



Operator: Mike Rodecker