



# SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems  
Institute Calibration Laboratory  
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Calibration Laboratory  
Certificate #0972-01

## Certificate of Calibration

**Cost Center / Customer:** DIV20 / DON BANNON

**Mail Stop:** B51

**Manufacturer/Model:** OMEGA / FL-112

**Description:** ROTAMETER

**Serial Number:** 25927

**Asset Number:** 015564

**Procedure:**

**Work Order:** 303091943

**Date Issued:** 5-Jan-2010

**Date Calibrated:** 5-Jan-2010

**\* Date Due :** 5-Jan-2011

**\*\* Results:** FOUND-LEFT

**Temperature:** 68.0 °F

**Humidity:** 34 %RH

**Barometer:** N/A

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 2005, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

\*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. \*\*Data type found in this certificate or attached measurement report must be interpreted as: Found-left - adjustment and/or repair was not performed, As-found - data is before unit is adjusted and/or repaired, As-left - data is after adjusted and/or repaired was performed. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance.

Measurement uncertainty calculated in accordance with the method described in the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM), for a confidence level of approximately 95 percent using a coverage factor of  $k=2$ .

**Remarks:** STP 70 °F 29.92 InHg 25 PSI. No pass/fail per customer request. See measurement report for actual data.

### Standards Used

<u>Asset #</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>Cal Date</u>	<u>Due Date</u>
007502	SIERRA	101 Cal Bench	GAS FLOW CALIBRATION SYSTEM	13-Nov-2009	13-Nov-2010

  
Walt Hill

Laboratory Manager

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Scott Kester

Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303091943	Mfr:	Omega	Technician:	SRK
Asset No:	015564	Model:	FL-112	Type Data:	Found-left
Serial No:	25927	Type:	Rotameter	Cal Date:	5-Jan-10

Remarks: No pass/fail per customer request

STP 70°F

Cal Position: Upright

29.92 in Hg

25 psi

K Factor: 1.000

Test Gas: Air

Function/Range	Test Point	TI Reading	+/- Uncertainty	Results
Flow	sccm	Scale Div.	sccm	See Remarks
	287	20	14	
	723	40		
	1240	60		
	1809	80		
	2388	100		

END OF REPORT