

ISO/IEC 17025 Calibration Certificate



201 Wolf Drive • P.O. Box 87 • Thorofare, NJ 08086-0087 • Phone: 856-686-1600 • Fax: 856-686-1601 • www.troemner.com • e-mail: troemner@troemner.com

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Time & Speed Calibration

SECTION 1: NAME AND ADDRESS OF CUSTOMER

Troemner LLC
201 Wolfe Dr
Thorofare, NJ 08086

Certificate Number:

Vortex Sample Cert

Serial Number:

123456789

SECTION 2: APPROVED SIGNATORY

Lynn Dickerson, Metrologist

SECTION 3: PERSON PERFORMING WORK

Angela Frost

SECTION 4: CERTIFICATE INFORMATION

Description of DUT: Pulsing Vortex Mixer
Order Number: VERBAL
Manufacturer: Talboys
Model: 9456TAPSEUC

Date Received: 5-Mar-2019

Date of Calibration: 7-Mar-2019

Date of Issue: 7-Mar-2019

SECTION 5: ENVIRONMENTAL CONDITIONS DURING TEST

Temperature : 15°C-35°C

Relative Humidity : <80%

SECTION 6: PERTINENT INFORMATION

Standards				
Manufacturer	Model	Serial Number	Cal Due Date	Description
Ametek	1726	SA-001	1-Aug-2019	Tachometer
Control Company	1021	160462949	1-Nov-2019	Bench Timer

The DUT calibrated for this report has been calibrated in accordance with Troemner's calibration procedure ECP-CAL.

This calibration also meets specifications as outlined in ISO/IEC 17025, ANSI/NCSL Z540-1-1994 and applicable documents.

This comparison calibration was performed in Troemner's Calibration Laboratory at 201 Wolf Drive, Thorofare, NJ 08086 unless otherwise noted. The instrument was compared to a laboratory standard, which is traceable through a National Measurement Institute (NMI) to the International System of Units (SI).

If reported, tolerances represent manufacturer stated accuracy unless noted otherwise. DUT was found to be within tolerance except where noted by an asterisk (*). No statement of compliance with specifications is made on this certificate.

SECTION 7: DEFINITIONS AND TERMS

UNCERTAINTY - Non-negative parameter characterizing the dispersion of the quantity values being attributed to a measurand, based on the information used. Uncertainty is calculated per BIPM JCGM 100 (GUM) using a coverage factor of $k = 2$ ($k = 2$ defines an interval having a level of confidence of approximately 95 percent).

DUT- Device Under Test. Item being calibrated.

DUT Error = DUT - Standard Indicated

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SECTION 8: CALIBRATION DATA

Calibration Point min	Standard Indicated s	DUT Indicated s	DUT Error s	Uncertainty s
1	59.81	60.00	0.19	0.76
10	599.8	600.0	0.2	1.0
60	3599.8	3600.0	0.2	1.0

Calibration Point r/min	Standard Indicated r/min	DUT Indicated r/min	DUT Error r/min	Uncertainty r/min
500	514.8	500.0	-14.8	2.6
1000	1013.5	1000.0	-13.5	6.5
1500	1516.2	1500.0	-16.2	6.5
2000	2008.1	2000.0	-8.1	8.4
2500	2513.3	2500.0	-13.3	8.9