



CERTIFICATE OF NIST TRACEABLE CALIBRATION

Calibration Certificate No: 92094

Customer Information

Customer: Intertek
Address : 8431 Murphy Drive
Middleton WI 53562



Customer PO #: Verbal - Christine Schultze

Calibration Procedure Information

Procedure ID: GTP FLOW_IND

Revision #: 9

Revision Date: 7/18/2019

Calibration Standards Information

<u>Graftel ID</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Description</u>	<u>CAL Due</u>
14021	CME Division	10-0-30A	LFE-D System	11/21/2021
14021-T	Graftel	9202	Temperature System	6/4/2024
14022	CME Division	10-0-300A	LFE-E System	11/21/2021
14022-T	Graftel	9202	Temperature System	6/4/2024
14023	Paroscientific	760-100A	Pressure, 100 psia	5/20/2022
10201	Hobo	UX100-011	Environment Monitor	10/15/2021
14042	Furness	FCO332	Diff. Pressure	5/20/2022

Sensor Information

Manufacturer: Rockwell

Description: Gas Meter

Method Used: Laminar

Model #: T-110

Rated Accuracy: ± 1 % of Reading

Accuracy Specified By: Rockwell

Instrument ID#: 13

Range: 0 to 110 cfh

Condition: Functional

Serial #: 26873

Comments: Calibration Date: 08/12/2021

Calibration Due: 08/12/2022

The calibrations within the certificate/report are traceable through NIST or another National Metrology Institute to the International System of Units (SI). The reported calibration uncertainty has a confidence level of 95% (k=2). A calibration uncertainty ratio of 4:1 was maintained unless required uncertainty is supported by analysis. Graftel Quality Assurance System complies with applicable requirements of ISO/IEC-17025-2017, ANSI/NCSL Z540-I-1994 and ISO 9001. All results contained within this certificate relate only to item(s) calibrated. This certificate shall not be reproduced except in full and with the written consent of Graftel. Acceptance Criteria per Simple Acceptance Rule: Measurement Uncertainty is not applied to the measured value when in/out of tolerance statement is made.

Performed By: 
Kevin Garcia
Calibration Technician

Date: 8/12/2021

Approved By: 
Scott Pickett
Vice President, Lab Services

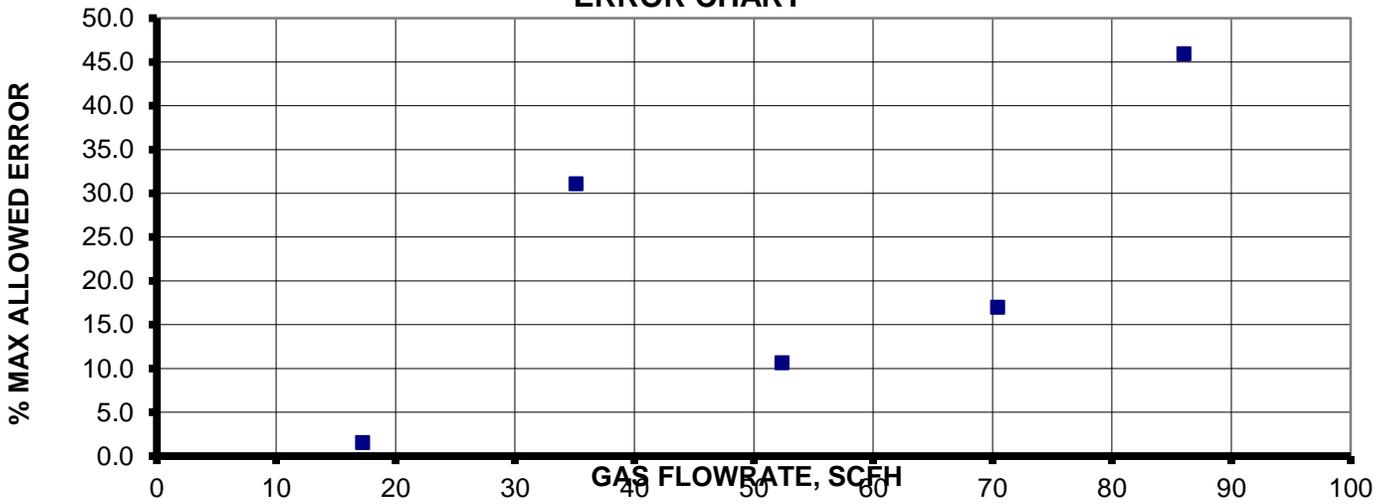
Date: 8/13/2021

**ATTACHMENT TO CALIBRATION CERTIFICATE 92094
AS FOUND / AS LEFT DATA**

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Air Flow Rate From Standard, scfh	Nat Gas, scfh	Actual Air Volume Flowed, cf	Lower Limit Indicated Flow Volume, cf	Indicated Flow Volume From DUT, cf	Upper Limit Indicated Flow Volume, cf	Measurement Uncertainty, cf	STATUS	% PROOF
17.226	21.533	0.700	0.693	0.70	0.707	0.003	Pass	99.984
35.103	43.879	1.296	1.283	1.30	1.309	0.006	Pass	99.690
52.369	65.461	1.898	1.879	1.90	1.917	0.009	Pass	99.893
70.440	88.050	2.596	2.570	2.60	2.622	0.013	Pass	99.830
86.023	107.529	2.986	2.956	3.00	3.016	0.015	Pass	99.543

ERROR CHART



INSTRUMENT SPECIFICATIONS

Test Gas	Air	
Standard Pressure	14.73	psia
Standard Temp	60	F
Gas Calcd for	Natural Gas	
Full Scale Flow Rate	110	cfh Natural Gas with SG =0.64
Rated Accuracy	1	% Rding

LABORATORY AMBIENT CONDITIONS

Pressure	14.28	psia
Humidity	66.20	% RH
Temperature	69.99	F



FLOW - TEMPERATURE - HUMIDITY - PRESSURE - DESIGN - CONSULTING - ENGINEERING

NIST Traceable Calibration Data Sheet

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