GWS Metrology Services

CBRE - GWS LLC
Metrology Services
9410 Bunsen Parkway
Suite 100B
Louisville, KY 40220
502-495-5700

Cert# L1117-1

Certificate Number:
CBRE-31475-ZT

Calibration Certificate

Date of Cal:
08-May-2024
Issue Date:
08-May-2024

Customer :
GE APPLIANCES - A HAIER COMPANY
GE APPLIANCE PARK
LOUISVILLE, KY 40225

PO Number
48157262

Work Order
73090

Asset Number : **2010341**
Serial Number : **2010341**
Manufacturer : **TRAFAG**
Model Number : **8845.21**
Description : **PRESSURE TRANSDUCER, 0-40 INH2O**
Cal. Location : **9410 BUNSEN PKWY #100B, LOUISVILLE, KY**
Department : **AP2**
Location : **WATER HEATER**

Environmental Data

Temp : **22.8 °C**
Humidity : **46.8 %**

Calibration Information

***Calibration Due Date : **05/08/2025**
Condition As Received : **MEETS SPEC.**
Condition As Returned : **PASS**

Procedures used for this Calibration:

Procedure #	Procedure Description	Rev #	Rev Date
CP-0161	PRESSURE TRANSDUCERS, ALL STYLES & TYPES	00	10/24/2002

Traceability Information

Asset Number	Description	Cal. Due Date	Reference Number
MET-0166	SENSOR, PRESSURE -50 TO 50 INH20	8/16/2024	CBRE-3409-TSM
MET-0497	MULTIMETER, DIGITAL	3/11/2025	CBRE-7574-CMV
MET-0990	TEMP AND HUMIDITY, DATALOGGER	8/7/2024	CBRE-3919-TSM

Traceability to NIST or other national metrology institutes for secondary measurement standards is established through laboratories aproved by the CBRE-GWS, LLC Metrology Services quality assurance program. Test reports and calibration certificates maintained by CBRE - GWS are available upon request to the reciepient of this calibration report.

Calibrated By: ZACHARY THOMAS - Metrologist

This is to certify that the above listed instrument/gage was inspected by CBRE GWS Metrology Services using a procedure(s) developed from the manufacturer specifications, accepted industry practices and/or customer requirements. The CBRE GWS Metrology Services Quality System conforms to ISO/IEC-17025:2017. It is hereby further certified that the inspection described herein was performed using standards whose values are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) or other National Metrology Institute (NMI), or have been derived from accepted values of natural constants, or have been derived by the ratio type of self calibration techniques. Uncertainties are estimated at a 95% confidence level. (k=2). The results indicated in this certificate relate only to the item(s) listed above. CBRE GWS Metrology Services responsibility shall in no event nor for any reason whatsoever exceed the purchase price of this calibration.

*** Calibration due dates are only issued if requested by the customer and are based upon customer dictated recall intervals.

CALIBRATION TEST POINTS

*** Not accredited for this parameter**

ERDICT- (P)=Passed, (A)=Adjusted after As Found Failure, (L)=Limited, (F)=Failed, (R)=Report of Value only

Description	Nominal	Tol -	Tol +	As Found	As Left	Units	Verdict	Comment
Pressure	0.000	-0.040	0.040	0.000	0.000	in·H2O	P	
	10.000	9.960	10.040	9.992	9.992	in·H2O	P	
	20.000	19.960	20.040	19.993	19.993	in·H2O	P	
	30.000	29.960	30.040	30.000	30.000	in·H2O	P	
	40.000	39.960	40.040	40.000	40.000	in·H2O	P	
decreasing	30.000	29.960	30.040	29.999	29.999	in·H2O	P	
	20.000	19.960	20.040	19.996	19.996	in·H2O	P	
	10.000	9.960	10.040	9.989	9.989	in·H2O	P	
	0.000	-0.040	0.040	-0.004	-0.004	in·H2O	P	
Voltage 0 in·H2O	0.0000			0.0000	0.0000	V	P	
10 in·H2O	2.5000			2.4888	2.4888	V	P	
20 in·H2O	5.0000			4.9799	4.9799	V	P	
30 in·H2O	7.5000			7.4726	7.4726	V	P	
40 in·H2O	10.0000			9.9634	9.9634	V	P	
30 in·H2O	7.5000			7.4724	7.4724	V	P	
20 in·H2O	5.0000			4.9807	4.9807	V	P	
10 in·H2O	2.5000			2.4882	2.4882	V	P	
0 in·H2O	0.0000			-0.0009	-0.0009	V	P	
Span Output	10.0000			9.9634	9.9634	V	P	
Zero Balance	0.0000			0.0400	0.0400	V	P	

The verdicts above are based upon a direct comparison of the measured value at the time of calibration, to a published or customer supplied tolerance for the specification listed. CBRE-GWS does not include the measurement uncertainty in making these determinations unless specifically requested. It is the responsibility of the user of this equipment to determine if the accept / reject tolerances meet the requirements of the intended measurement process.

Certificate Comments :

No Additional Comments

Expanded measurement uncertainty at an approximate 95% confidence level (k=2)

(-50 to 50) inH2O
± 0.012 inH2O