

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





Certificate Number: CBRE-7415-CK

Calibration Certificate

Date of Cal: 23-Feb-2024 Issue Date: 23-Feb-2024

Customer:

PO Number 48157262

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

Work Order

Asset Number : AP2/02N2SC
Manufacturer : DWYER

Description: **DIGITAL MANOMETER**

Serial Number : **02N2SC** Model Number : **477AV**

Cal. Location :8410 BUNSEN PKWY #100B, LOUISVILLE, KY

Make sure to put the full model number. We have the 477AV-1 (0-20 in WC Range)

Environmental Data

Temp: 22.5 °C Humidity: 34.8 %

Calibration Information

***Calibration Due Date : **02/23/2025**Condition As Received : **MEETS SPEC.**

Condition As Returned: PASS

Procedures used for this Calibration:

Procedure #	Procedure Description	Rev #	Rev Date
CP-0106	MICROMANOMETER, DIFFERENTIAL PRESSURE / VELOCITY	01	3/7/2012

Traceability Information

Asset Number	Description	Cal. Due Date	Reference Number
MET-0759	CALIBRATOR, LOW PRESSURE	6/12/2024	CBRE-3158-TSM
MET-0992	TEMP AND HUMIDITY, DATALOGGER	8/7/2024	CBRE-3918-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: CHRISTOPHER KROLIK - 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.

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Calibration Certificate (Cont)

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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	
Pos. Pressure	0.000	-0.100	0.100	0.007	0.007	in-H2O	Р		
	5.00	4.90	5.10	4.95	4.95	in-H2O	Р		
	10.00	9.90	10.10	9.94	9.94	in-H2O	Р		
	15.00	14.90	15.10	14.95	14.95	in-H2O	Р		
	20.00	19.90	20.10	19.99	19.99	in-H2O	Р		
	15.00	14.90	15.10	14.95	14.95	in-H2O	Р		
	10.00	9.90	10.10	9.95	9.95	in-H2O	Р		
	5.00	4.90	5.10	4.96	4.96	in-H2O	Р		
	0.000	-0.100	0.100	0.030	0.030	in-H2O	Р		

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)

 $(-15 \text{ to } 15) \text{ psig } \pm 0.004 \text{ psig}$