



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG, BANGKOK 10250
TEL. 0-2717-3000-24 FAX. 0-2719-9484



Certificate of Calibration

Certificate No. : 23P1417

Page : 1 of 2

Equipment : Pressure Datalogger

Manufacturer: Omega

Model : OM-CP-PR140

Serial No.: P95847

ID No.: PRED005

Condition As-Received: Used Item

Received Date: 02 May 2023

Calibration Date: 10 May 2023

Reference: 2305-0039WSC

Submitted by: National Healthcare Systems Co.,Ltd.

Ambient Temperature: (23 ± 2) °C

Relative Humidity: (50 ± 15) %

Atmospheric Pressure: 1010 mbar

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except with the prior written approval of the head of
Corporate Services 3: Equipment Calibration and Testing Services.

2301/2 New Petchburi Soi 47 (Soonvijai),
Bangkapi, Huaykwang, Bangkok 10310

Procedure used: The calibration was conducted by direct comparison method against Pressure Measuring Instruments Standard according to in-house calibration procedure CP-P02, using " DKD-R 6-1 ; Calibration of Pressure Gauges, Edition 03/2014 " as a guidelines.

Condition of this result of calibration

1.Reference standards instruments :

<u>Instrument</u>	<u>Model</u>	<u>Serial No.</u>	<u>Certificate No.</u>	<u>Due Date</u>
1) Dead-Weight Tester	T2300/2	11450-98	MP-0156-20	06 Oct 2025

2.This result of calibration was made on requested at the point specified by customer.

3.Scale and conversion factor is 1 kPa = 0.01 bar

4.This instrument was used nitrogen gas as pressure media.

5.This instrument was installed in vertical orientation and top of the pressure port was used as the reference level.

6.The certificate is valid only to the item calibrated on date and place of calibration.

7.This Certification is traceable to the International System of Unit maintained through:-

-National Institute of Metrology Thailand (NIMT)

Calibrated by : Suwit Aussarree

Issue Date : 12 May 2023

Approved Signatory :

Attapol P.

☐ Phalinee Prabpaipal

☐ Sura Suwannasri

☒ Attapol Panurach

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Cert.No.: 23P1417

Page: 2 of 2

- This instrument was connected with Data Logger Software Omega Version 2.07.1 Model OM-CP-PR140 as an indicator.

Result of calibration:- Without adjustment**Range :** 0 bar to 4 bar**Offset :** 0.96149999 bar**Function:- Pressure Measurement****Resolution :** 0.0001 bar**Increasing Pressure**

Applied Pressure (bar)	0.00000	0.39121	0.78248	1.22264	1.61390	2.00518	2.39645	2.78782	3.22800	3.61927	3.99985
UUC* Indication (bar)	0.0000	0.3907	0.7812	1.2209	1.6119	2.0030	2.3938	2.7847	3.2233	3.6127	3.9908
Error (bar)	0.00000	-0.00051	-0.00128	-0.00174	-0.00200	-0.00218	-0.00265	-0.00312	-0.00470	-0.00657	-0.00905

Decreasing Pressure

Applied Pressure (bar)	3.99985	3.61927	3.22800	2.78782	2.39645	2.00518	1.61390	1.22264	0.78248	0.39121	0.00000
UUC* Indication (bar)	3.9908	3.6127	3.2233	2.7847	2.3939	2.0031	1.6120	1.2210	0.7814	0.3908	0.0000
Error (bar)	-0.00905	-0.00657	-0.00470	-0.00312	-0.00255	-0.00208	-0.00190	-0.00164	-0.00108	-0.00041	0.00000

The uncertainty of measurement was ± 0.0016 bar

* UUC = Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95 %.

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