



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. : 23E1911

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Equipment : Digital Tachometer

Manufacturer: Monarch

Model : PLT200

Serial No.: 1837601

ID No.: TACH002

Condition As-Received: Used Item

Received Date: 06 June 2023

Calibration Date: 07 June 2023

Reference: 2306-0124WSC

Submitted by: National Healthcare Systems Co.,Ltd.

Ambient Temperature: (23 ± 2) °C

Relative Humidity: (50 ± 10) %

This certificate may not be reproduced other than in full,
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: Calibration were conducted using in-house calibration Procedure CP-E20 According to direct measurement method with Synthesized Function Generator.

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) Synthesized Function Generator	FG110	27XW0013A	EF-0005-23	13 Jan 2024

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

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

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

-National Institute of Metrology Thailand (NIMT)

Calibrated by : Wutchareeporn Wongchutikrane
Issue Date : 09 June 2023

Approved Signatory :

☐ Phalinee Prabpaipal

☒ Nuntawat Khamchai

☐ Pornthippa Tameyakul

B 0317004



Cert. No.: 23E1911

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Result of calibration :- (*) Without adjustment () After adjustment

Function : r/min Measurement

Range : Autorange

Mode : Photo

<u>Standard Value</u>	<u>Required</u> <u>UUC* Reading</u>	<u>Actual</u> <u>UUC* Reading</u>	<u>Error</u>	<u>Uncertainty</u>	
(Hz)	(r/min)	(r/min)	(r/min)	(\pm r/min)	#
0.083333	5.000	5.000	0.000	0.012	
0.833333	50.000	50.000	0.000	0.012	
8.333333	500.00	500.01	0.01	0.12	
83.333333	5000.0	5000.1	0.1	1.2	
833.333333	50000	50001	1	1.2	
1666.650000	99999	99998	-1	1.2	

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 %

UUC* = Unit Under Calibration

Not NSC-ONSC Accredited.

***Display unit only not include effect of sensor.**

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