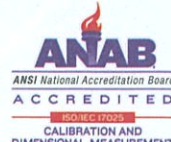




ID LINE : IEC17025



Certificate of Calibration

Certificate Number : SPR24070056-1

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Customer : PMJ Testing & Engineering Co.,Ltd

4/4 Soi Laemkratie, Sukhumvit Rd, Noen Phra, Mueang Rayong,
Rayong 21150

Equipment Name : Crane Scale

Manufacturer : Zepper

Model : CCS-XZ-KAE

Serial Number : C52

ID. Number : N/A

Environmental Conditions

Ambient Temperature : $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Relative Humidity : $50\% \pm 15\%$

Location of Calibration : In-Lab

Calibration Procedure : SP-CPM-04-08

Received Date : 03 Jul 2024

Calibration Date : 05 Jul 2024

Recommend Due Date : 05 Jul 2025

Date of Issue : 06 Jul 2024

Method of Calibration

This certifies that the above instrument was calibrated in compliance with the calibration system requirement of ISO/IEC 17025:2017 in accordance with reference procedure. Standards used to perform this calibration are certified by to NIST or equivalent, National metrology institute, Natural physical constants, consensus standards. The result reported herein apply only to the calibration of the item described above as received. Our decision rule is to contact the customer if the item pass and fail calibration when the results include the uncertainties and the customer must determine if the results meets their needs.

The calibration certificate shall not be reproduced except in full, without written approval of SP Metrology System (Thailand).

Calibrated by : Mr.Lapon Naimpoung

Calibration Officer

Approved by :


(Mr.Prayoon Topart)

Authorized Signatory



ID LINE : IEC17025



Calibration Report

Certificate Number : SPR24070056-1

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Reference Standards

Equipment Name	Model	Serial No.	Certificate No.	Due. Date
Standard Load Cell 5 Ton	KEED-5T	P2K0822	FU1-214-2024	09 Mar 2025

Traceability

This certification is traceable to the International System of Unit maintained at :
INTRO - INTRO TSC Co., Ltd



ID LINE : IEC17025



Result of Calibration

Certificate No. : SPR24070056-1

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Calibration Range : 0 kg to 30000 kg

Capacity : 30000 kg

Calibration mode : Tensile Testing Machine

Resolution : 10 kg

Tension

Unit : kg

Indicated Force (Fi)	UUC Reading				Average	(±) Expanded Uncertainty	
	Increase			Decrease			
	F1	F2	F3	F'		(%)	(kg)
3000.0	3010	3020	3010	3020	3013	0.32	9.5
* 6000.0	6010	6010	6010	6010	6010	0.16	9.6
* 9000.0	9010	9010	9020	9010	9013	0.16	14
* 12000.0	12020	12010	12020	12020	12017	0.16	19
* 15000.0	15020	15020	15010	15020	15017	0.16	24
* 18000.0	18020	18010	18020	18020	18017	0.16	29
* 21000.0	21030	21030	21030	21030	21030	0.16	34
* 24000.0	24030	24020	24030	24020	24027	0.16	38
* 27000.0	27020	27030	27020	27030	27023	0.16	43
* 30000.0	30030	30020	30030	30020	30027	0.16	48

The uncertainty evaluation has been carried out in accordance with BS EN ISO 7500-1 requirements.

Note:

The result of calibration was found accurate as show on date and place of calibration only.

This Certificate is not certified for any commercial transaction.

Calibration Marked (*) "Not ANAB Accredited " in this Certificate have been included for completeness.

Measurement Uncertainty

The reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor $k = 2.00$, providing a level of confidence approximately 95%

- End of Certificate -