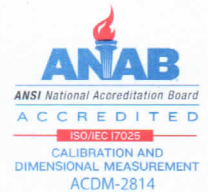




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CALIBRATION LABORATORY Co., LTD.

2/10-11,14,55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230
Tel. 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com E-mail:sale@cal-laboratory.com



CERTIFICATE OF CALIBRATION

FOR

NOMENCLATURE : **ULTRASONIC FLOW METER**
MANUFACTURER : **FLOKO**
MODEL / TYPE : **FM-200H**
SERIAL NO. : **81976169H/7158195**
CLID. NO. : **212200911**
JOB CONTROL NO. : **220614059768**

CUSTOMER : **JTEC ENGINEERING (THAILAND) CO., LTD.**
9/111 SOI RANGSIT-NAKORNAYOK 34/1,
PRACHATIPAT, TANYABURI, PATHUMTHANI, THAILAND

DATE OF RECEIVED : 14 June 2022

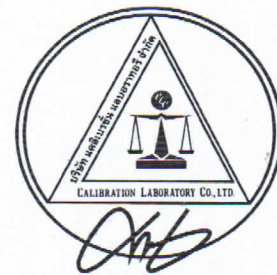
DATE OF ISSUED : 17 June 2022

Report of calibration screening must not be taken in part. Except complete. Without the approval of the Calibration Laboratory Co., Ltd.

Calibrated By : **Supphakit Sakuntaharn**
Calibration Engineer

Approved By : **Mongkol Yotsoontorn**
Authorized Signatory

17 June 2022



This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI)

Certificate No. Q22059768

F3-011-04/01-12

page 1 of 3



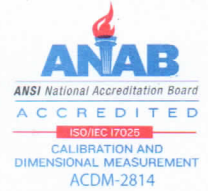
@clccalibration



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REPORT OF CALIBRATION

FOR

NOMENCLATURE : **ULTRASONIC FLOW METER**
MANUFACTURER : **FLOKO**
MODEL / TYPE : **FM-200H**
SERIAL NO. : **81976169H/7158195**
CALIBRATION SITE : **MOBILE FLOW**
DATE OF CALIBRATION : **16 June 2022**

ENVIRONMENT CONDITIONS :

Temperature : 30 °C to 31 °C

Relative Humidity : 60% to 62%

PROCEDURE USED :

This instrument was calibrated under procedure No. **CLC-CPPF-02**. The calibration was performed by comparison with Mass Flowmeter which maintained by the Calibration Laboratory Co., Ltd.

REFERENCE STANDARD USED :

Mass Flowmeter , Nagman Model NAGMASS 100 S/N. V1882003.

TRACEABILITY :

The measurements are traceable to International System of Units (SI), through Flowlab & Service Co., Ltd. Certificate No. FLS-LAB3-20-0872, Due Date 27 October 2022.

UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor complies with the table which for a normal distribution corresponds to a coverage probability of approximately 95 %. It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2021)"

Certificate No. **Q22059768**

F3-011-04/01-12

page 2 of 3



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CONDITION OF CALIBRATION ITEM : GOOD

MEASUREMENT RESULTS : (X) without adjustment () adjustment

The table in the following gives the calibration results and associated measurement uncertainties of the measuring ultrasonic flow meter.

CALIBRATION DATA

ULTRASONIC FLOW METER RESULT

Test point (m ³ / h)	DUC Reading (m ³ / h)	STD Reading (m ³ / h)	Correction (m ³ / h)	Uncertainty ± (m ³ / h)	Coverage factor k
33	32.893	32.967	+0.074	0.040	2,00
66	65.600	66.017	+0.417	0.079	2,00
99	98.399	99.020	+0.621	0.119	2,00

Technical Note. Type of calibration : Mass Flow

Display in used : DUC Display

Unit Display : m³ / hr

Standard pipe No. : 4"

Wall Thickness : 2.75 mm

Pipe Material : Stainless Steel

Transducer Mounting : V Method

Transducer Type : Clamp-On TM-1

Scale Factor : 1

Note. The Scope of Accredited ANAB Certificate No. ACDM-2814 Version 008 Page 40 of 54

This report is valid for the above stated instrument/s only.

End of Certificate

Certificate No. Q22059768

F3-011-04/01-12

page 3 of 3



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