



CALTEK PTE LTD

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CALIBRATION CERTIFICATE

CERTIFICATE NUMBER : CTM 1961M-20
DATE RECEIVED : 2-Jul-20

JOB NUMBER : CTJ 20-4431
ISSUE DATE : 8-Jul-20

Instrument : MASS FLOW METER
Manufacturer : AALBORG
Model No. : GFM17
Part No. : ---
Serial No. : 170609-1

Ambient Temperature : $(23 \pm 5) ^\circ\text{C}$
Relative Humidity : $(55 \pm 10) \% \text{ r.h.}$
Date Calibrated : 8-Jul-20
Recommended Due Date : 8-Jul-21

Customer : FLEXTRONICS MANUFACTURING
(SINGAPORE) PTE LTD
1 Kallang Place
Singapore 339211

Medium : N_2
Range : $(0.00 \sim 1.00) \text{ ml/min}$
(Equipment ID.) : 0597
Page : 1 of 2
Status : As Found

The described instrument has been calibrated at **Caltek Laboratory** under the ambient conditions stated above.

This certificate provides traceability of measurement to the International System of Units (**SI**) and/or to units of measurement realised at the National Metrology Centre (**NMC**), Singapore or other recognized national metrology institutes.

METHOD : The calibration method was carried out according to In-house Technical Calibration Procedure CTTM - M21:2007 as a guide.

REFERENCE INSTRUMENT(S)	SERIAL NO	DUE DATE
1. Mass Flow Calibrator	F11008-001 & 0110120446089001	4-Nov-20

RESULTS OF CALIBRATION

- The results of calibration are given on the attached calibration data sheet(s).
- The expanded uncertainty of measurement associated with the calibration is 2.0% of reading estimated at a level of confidence of approximately 95 % with a coverage factor of $k=2.00$.
- The user should determine the suitability of the instrument for its intended use.

Calibrated by :
U B KIRAN BHANU
EMP ID: 1154

Approved by :
PREM KUMAR. S
EMP ID : 1022

REVIEWED & ACCEPTED
SIGN: *P. W. J. Chang Mei Lan*
DATE: 09 Jul 20
REMARKS: EQID 0597
P. Mond Shamsul 09 Jul 20



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MEAN REFERENCE READING (mL/min)	MEAN INSTRUMENT READING (mL/min)		CORRECTION (mL/min)
	Before adjustment	After adjustment	
0.00	0.00	---	0.00
0.24	0.23	---	0.01
0.52	0.51	---	0.01
0.77	0.77	---	0.00
0.97	0.96	---	0.01

Remarks: The calibration results are referred to the condition of Temperature 21.11 °C and Pressure 101.3 kPa.