



ACCURATE TECHNOLOGY

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American National Standards Institute
Accreditation Calibration
ANSI Member : 264502
ISO / IEC 17025

CERTIFICATE OF CALIBRATION

CERTIFICATE NO. : AT 32496 - 19

SUBMITTED BY : REVMAX ENGINEERING SDN BHD
NO . 11 , 1 ST FLOOR
TAMAN SRI MAWAR
71000 , PORT DICKSON , NEGERI SEMBILAN .

DATE OF ISSUE : 16 DECEMBER 2019

PAGE : 1 OF 2

INSTRUMENT : WHIRLING HYGROMETER

BRAND : TOPFIELDS BORNEO SDN BHD

MODEL : TOPGAUGE W H M - 1018

INSTRUMENT CONDITION WHEN CALIBRATED
- GOOD PHYSICAL CONDITION

SERIAL NO : W H - 401

RANGE : 10 °C to 50 °C / 0.5 °C

RANGE : 20 % to 100 % R.H. / 1.0 % R.H.

INSTRUMENT CONDITION AFTER CALIBRATED
- CALIBRATED AND TESTED SERVICEABLE
- ZERO ADJUSTMENT HAS DONE

CALIBRATION DATE : 16 DECEMBER 2019

RECOMMEND DUE DATE : 16 DECEMBER 2020

TEMPERATURE : 20.5 °C \pm 1.0 °C

RELATIVE HUMIDITY : 45 % \pm 5 % R.H.

METHOD OF CALIBRATION

AS GENERAL RECOMMENDED BY JAPAN INDUSTRIAL STANDARD (JIS) IN PROCEDURE JIS B 7920 - 2007

MASTER EQUIPMENTS USED

TECPEL DIGITAL THERMO - HYGRO SENSOR
TEMPERATURE AND HUMIDITY CHAMBER

SERIAL NO

MK 20536
AS 305894

DUE DATE

31 DECEMBER 2020
31 DECEMBER 2020

TRACEABILITY OF MASTER EQUIPMENTS

THE EQUIPMENT IS TRACEABLE TO ANSI / ASTM REPORT NO : B77 - 14009 - 2020

RESULT OF CALIBRATION

AS PER GIVEN IN PAGES 2 OF THIS REPORT

MEASUREMENT UNCERTAINTY

THE UNCERTAINTY CALCULATION IS BASED ON THE ISO GUIDE TO THE EXPRESSION OF UNCERTAINTY MEASUREMENT

THE UNCERTAINTIES ARE FOR A CONFIDENCE PROBABILITY OF NOT LESS THAN 95 %

THE ATTACHED MEASUREMENT DATA INDICATED ALL THE TEST PERFORMED AT TIME OF CALIBRATION AND HAS FOUND THE INSTRUMENT TO BE WITHIN SPECIFICATIONS UNLESS OTHERWISE INDICATED . THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL , WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY .



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PAGE : 2 OF 2

CALIBRATION RESULTS

Testing Range = 10 ° C - 40 ° C / 25 % R.H. - 95 % R.H.

Nominal Value	Specified Limit			Measured Value	Deviation	Judgement
	Min		Max			
10.0 ° C	8.0	to	12.0 ° C	10.0 ° C	0.00 ° C	Acceptable
20.0 ° C	18.0	to	22.0 ° C	20.5 ° C	+ 0.50 ° C	Acceptable
30.0 ° C	28.0	to	32.0 ° C	30.5 ° C	+ 0.50 ° C	Acceptable
40.0 ° C	38.0	to	42.0 ° C	40.5 ° C	+ 0.50 ° C	Acceptable
25.0 %	22.0	to	28.0 %	25.0 %	0.00 %	Acceptable
35.0 %	32.0	to	38.0 %	35.0 %	0.00 %	Acceptable
45.0 %	42.0	to	48.0 %	45.0 %	0.00 %	Acceptable
55.0 %	52.0	to	58.0 %	55.0 %	0.00 %	Acceptable
65.0 %	62.0	to	68.0 %	65.0 %	0.00 %	Acceptable
75.0 %	72.0	to	78.0 %	76.0 %	+ 1.00 %	Acceptable
85.0 %	82.0	to	88.0 %	86.0 %	+ 1.00 %	Acceptable
95.0 %	92.0	to	98.0 %	96.0 %	+ 1.00 %	Acceptable

PERMISSIBLE VALUE	± 1.0 ° C	± 3.0 % R.H.
MEASUREMENT UNCERTAINTY	± 0.3 ° C	± 1.0 % R.H.

CALIBRATED BY

PONY MAH

CERTIFIED BY

ELISE SO



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