



ACCURATE TECHNOLOGY

NO. 11 , JALAN LEMBAH 3 , TAMAN DESA JAYA
81100 , JOHOR BAHRU , JOHOR .
TEL : 07- 353 2962 EMAIL : accurate93@gmail.com



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

CERTIFICATE OF CALIBRATION

CERTIFICATE NO. : AT 33479 - 20

SUBMITTED BY : KEJURUTERAAN GEMILANG JAYA SDN BHD **DATE OF ISSUE :** 10 JULY 2020
LOT . 27 , TG KIDURONG SHOPHOUSE
GROUND FLOOR 6 , JALAN TANJUNG KIDURONG
97000 , BINTULU , SARAWAK . **PAGE :** 1 OF 3

INSTRUMENT : DIGITAL HUMIDITY & TEMPERATURE METER
BRAND : TOPFIELDS BORNEO SDN BHD
MODEL : TOPGAUGE U A - 963 **INSTRUMENT CONDITION WHEN RECEIVED**
- GOOD PHYSICAL CONDITION
SERIAL NO : HTM - 001
RANGE : - 20 to + 70 °C / 0.1 °C
RANGE : 0.0 - 100 % R.H. / 0.1 % R.H. **INSTRUMENT CONDITION WHEN RETURNED**
- CALIBRATED AND TESTED SERVICEABLE
- NO ADJUSTMENT HAS DONE
CALIBRATION DATE : 10 JULY 2020
RECOMMEND DUE DATE : 10 JULY 2021
TEMPERATURE : 20.5 °C ± 1.0 °C
RELATIVE HUMIDITY : 45 % ± 5 % R.H.

METHOD OF CALIBRATION

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

<u>MASTER EQUIPMENTS USED</u>	<u>SERIAL NO</u>	<u>DUE DATE</u>
TECPEL DIGITAL THERMO - HYGRO SENSOR	MK 20536	31 DECEMBER 2020
TEMPERATURE AND HUMIDITY CHAMBER	AS 305894	31 DECEMBER 2020

TRACEABILITY OF MASTER EQUIPMENTS

THE EQUIPMENT IS TRACEABLE TO ANSI / ASTM REPORT NO : B77 - 14006 - 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 .



ACCURATE TECHNOLOGY

NO. 11 , JALAN LEMBAH 3 , TAMAN DESA JAYA
81100 , JOHOR BAHRU , JOHOR .

TEL : 07- 353 2962 EMAIL : accurate93@gmail.com



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

CERTIFICATE OF CALIBRATION

CERTIFICATE NO. : AT 33479 - 20

INSTRUMENT : DIGITAL HUMIDITY & TEMPERATURE METER

DATE OF ISSUE : 10 JULY 2020

SERIAL NO : H T M - 001

PAGE : 2 OF 3

CALIBRATION RESULTS

Parameter	Applied Value	Specified Limit			Measured Value	Deviation
		Min		Max		
Temp. Surrounding	10.0 °C	9.0	to	11.0 °C	10.0 °C	0.00 °C
	20.0 °C	19.0	to	21.0 °C	20.0 °C	0.00 °C
	30.0 °C	29.0	to	31.0 °C	30.0 °C	0.00 °C
	40.0 °C	39.0	to	41.0 °C	40.0 °C	0.00 °C
	50.0 °C	49.0	to	51.0 °C	49.9 °C	- 0.10 °C
Temp. Wet Bulb	10.0 °C	9.0	to	11.0 °C	10.0 °C	0.00 °C
	20.0 °C	19.0	to	21.0 °C	20.0 °C	0.00 °C
	30.0 °C	29.0	to	31.0 °C	30.0 °C	0.00 °C
	40.0 °C	39.0	to	41.0 °C	39.9 °C	- 0.10 °C
	50.0 °C	49.0	to	51.0 °C	49.9 °C	- 0.10 °C
Temp. Dew Point	10.0 °C	9.0	to	11.0 °C	10.0 °C	0.00 °C
	15.0 °C	14.0	to	16.0 °C	15.0 °C	0.00 °C
	20.0 °C	19.0	to	21.0 °C	20.0 °C	0.00 °C
	25.0 °C	24.0	to	26.0 °C	24.9 °C	- 0.10 °C
	30.0 °C	29.0	to	31.0 °C	29.9 °C	- 0.10 °C
Temp. Differential	2.0 °C	1.0	to	3.0 °C	2.0 °C	0.00 °C
	4.0 °C	3.0	to	5.0 °C	4.0 °C	0.00 °C
	6.0 °C	5.0	to	7.0 °C	6.0 °C	0.00 °C
	8.0 °C	7.0	to	9.0 °C	7.9 °C	- 0.10 °C
	10.0 °C	9.0	to	11.0 °C	9.9 °C	- 0.10 °C

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 .



ACCURATE TECHNOLOGY

NO. 11, JALAN LEMBAH 3, TAMAN DESA JAYA
81100, JOHOR BAHRU, JOHOR.

TEL : 07- 353 2962 EMAIL : accurate93@gmail.com



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

CERTIFICATE OF CALIBRATION

CERTIFICATE NO. : AT 33479 - 20

INSTRUMENT : DIGITAL HUMIDITY & TEMPERATURE METER

DATE OF ISSUE : 10 JULY 2020

SERIAL NO : H T M - 001

PAGE : 3 OF 3

CALIBRATION RESULTS

Parameter	Applied Value	Specified Limit				Measured Value	Deviation
		Min		Max			
Humidity (% R H)	30.0 %	29.0	to	31.0	%	30.0 %	0.00 %
	35.0 %	34.0	to	36.0	%	35.0 %	0.00 %
	40.0 %	39.0	to	41.0	%	40.0 %	0.00 %
	45.0 %	44.0	to	46.0	%	45.0 %	0.00 %
	50.0 %	49.0	to	51.0	%	50.1 %	+ 0.10 %
	55.0 %	54.0	to	56.0	%	55.1 %	+ 0.10 %
	60.0 %	59.0	to	61.0	%	60.2 %	+ 0.20 %
	65.0 %	64.0	to	66.0	%	65.2 %	+ 0.20 %
	70.0 %	69.0	to	71.0	%	70.2 %	+ 0.20 %

PERMISSIBLE VALUE	± 1.00 ° C	± 1.00 % R.H.
MEASUREMENT UNCERTAINTY	± 0.10 ° C	± 0.10 % R.H.

CALIBRATED BY

PONY MAH

CERTIFIED BY

ELISE SO



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 .