



# SMSB

"Calibration Services Centre"

Scope of Accreditation: Dimensional; Electrical; Temperature; Mass; Force; Torque; Flow; Pressure & Volumetric.



## CERTIFICATE OF CALIBRATION

Certificate No. : SM16525017

Date of Issue : 22 Jul 2016

Issued By : Sendi Mahir Sdn Bhd

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Customer : MIKROMEDIK SILVER SDN BHD  
NO 64, JALAN BANDAR TIMAH,  
30000 IPOH PERAK

Instrument : Thermometer with thermocouple

Calibration Date : 21 Jul 2016

Manufacturer : tpi

Recalibration Date : 21 Jul 2017

Model/Type : 343

Specified By Customer

Serial No : 20129060023

Remark : The user should be aware that any numbers of factors may cause this instrument to drift out of calibration before the specified calibration interval has expired.

Capacity : -

Resolution : 0.1°C

Calibration Environment Condition:

Condition Upon Receiving : Good in Physical Condition

Temperature : 23.7 to 24.0 °C

Condition Upon Returning : Calibrated and Tested Serviceable.

Relative Humidity : 47 to 50 %RH

Calibration Method : In-house procedure ICPT2

Calibration Venue : This Instrument has been calibrated at Sendi Mahir Sdn Bhd

Calibration Result : The result as following page(s). The expanded uncertainties are based on an estimated confidence probability of approximately at 95% and have a coverage factor of k=2 unless stated otherwise.

### Reference Standard(s) Used :

Reference Standard Name	Serial No	Calibration Due Date	Traceable To
TEMP.RECORDER C/W SENSOR	T034	05 Nov 2016	NML(MY)

Calibrated By:

Fatin

Approved Signatory:

Mohd Azlan

This certificate is issued in accordance with the conditions of accreditation granted by the SAMM which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realised at the corresponding national standards laboratory. The results of calibration performed by Sendi Mahir Sdn. Bhd. apply to the particular equipment at the time of its test. They do not indicate or imply that Sendi Mahir Sdn. Bhd. approves, recommends or endorses the manufacturers or suppliers or users of such equipment that Sendi Mahir Sdn. Bhd. in any way guarantees the equipment's performance after calibration. Test/calibrations marked "Not SAMM Accredited" in this report/certificate are not included in the SAMM Accreditation Schedule of our laboratory. Opinions and interpretations expressed herein are outside the scope of SAMM accreditation. Copyright of this certificate is owned by the issuing laboratory and may not be reproduced other than in full except with the prior written approval of the Head of the issuing laboratory.

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### Technical Information

Sensor Type : K

Manufacturer Specification : N/A

Readability : 0.1 °C

### Calibration Results :

All Unit In : °C

#### Accuracy Test

Temperature Reading	Correction	
	CH1	CH2
26	0.0	- 0.2
27	- 0.2	- 0.3
28	- 0.4	- 0.4
29	- 0.3	- 0.4
30	- 0.1	- 0.4
31	- 0.8	- 0.2

Measurement Uncertainty :  $\pm$  5.4 °C

Note 1 : User Instrument Reading = Temperature Reading - Correction

Note 2 : To derive Temperature Reading = User Instrument Reading + Correction

Note 3 : Interpolation = Reading in between 2 test point may be derive by interpolate and plot a straight line graph where Temperature Reading(x-axis) Vs. Correction(y-axis).

Note 4 : Uncertainty = Parameter, associated with the result of measurement, that characterises the dispersion of the value that reasonably be attributed to the measurand.

Note 5 : N/A = Not Available.