



SMSB

SENDI MAHIR SDN. BHD. (333138-T)

NO.6, 8 & 10, JALAN KAPAR 27/89, MEGAH INDUSTRIAL PARK,
SEKSYEN 27, 40400 SHAH ALAM, SELANGOR DARUL EHSAN, MALAYSIA.
TEL: 03-5191 7388 (HUNTING LINE), 5191 7502, 5191 7592, 5192 9481 FAX: 03-5191 0675, 5191 9716
EMAIL: enquiry@sendimahir.com ; marketing@sendimahir.com Website: www.sendimahir.com



CERTIFICATE OF CALIBRATION

Certificate No : SM14388106

Date of Issue : 29 Oct 2014

Issued By : Sendi Mahir Sdn Bhd

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Customer : LEAD MANAGEMENT ENGINEERING (MALAYSIA) SDN BHD
NO.124 & 125, PERSIARAN 6,
KULIM AVENUE , KULIM HI TECH PARK,
09000 KULIM KEDAH

Instrument : Anemometer

Calibration Date : 29 Oct 2014

Manufacturer : TPI

Recalibration Date : 29 Oct 2015

Model/Type : 575

Specified By Customer

Serial No : 16426460047

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 m/s ; 0.1°C

Calibration Environment Condition:

Condition Upon Receiving : Good in Physical Condition

Temperature : 23.4 to 23.7 °C

Condition Upon Returning : Calibrated and Tested Serviceable.

Relative Humidity : 46 to 48 %RH

Calibration Method : In-house procedure ICPF12 & ICPT4

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
AIR VELOCITY CALIBRATOR	F011	14 Sep 2015	NIST(USA)
RTD & PRT C/W THERMOMETER	T046	26 Jun 2015	NML(MY)

Calibrated By:

M.K. Ng

Approved Signatory:

L.H. Seah

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. 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.

Johor



SETIANAS SDN. BHD.
(Co. No. 370528-T)



Penang



PROCAL SERVICES SDN. BHD.
(Co. No. 465725-K)





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Technical Information

Type of Sensor : Hotwire

Manufacturer Specification :

Readability : 0.1 m/s

N/A

Calibration Results :

All Unit In : m/s

Accuracy Test

Nominal Value	Correction	
	Before Adjustment	After Adjustment
0	0.0	N/A
3	- 0.4	N/A
6.5	- 0.4	N/A
10	+ 0.2	N/A
15	+ 0.9	N/A

Measurement Uncertainty : ± 0.1 m/s (Range : 0.15 m/s to 5 m/s)
 ± 0.2 m/s (Range : above 5 m/s to 20 m/s)

Note 1: User instrument reading = Nominal Value - Correction

Note 2: To derive Nominal Value = 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 Nominal Value (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: Correction can be ignore if smaller than user specification, unless otherwise user shall apply correction to derive true value.

Note 6: If no adjustment done refer to 'Correction before adjustment'. If adjustment was done refer to 'Correction after adjustment' to derive the true value.

Note 7: (*) Out of specification

Note 8: N/A - Not Available.



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MS ISO/IEC 17025
CALIBRATION
SAMM NO. 082

CERTIFICATE OF CALIBRATION

Certificate No : SM14388106

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Technical Information

Type of Sensor : Vane

Manufacturer Specification :

Readability : 0.1 m/s

N/A

Calibration Results :

All Unit In : m/s

Accuracy Test

Nominal Value	Correction	
	Before Adjustment	After Adjustment
0	0.0	N/A
3	- 1.2	N/A
6.5	+ 0.3	N/A
10	+ 0.7	N/A
15	+ 0.9	N/A

Measurement Uncertainty : ± 0.1 m/s (Range : 0.15 m/s to 5 m/s)
 ± 0.2 m/s (Range : above 5 m/s to 20 m/s)

Note 1: User instrument reading = Nominal Value - Correction

Note 2: To derive Nominal Value = 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 Nominal Value (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: Correction can be ignore if smaller than user specification, unless otherwise user shall apply correction to derive true value.

Note 6: If no adjustment done refer to 'Correction before adjustment' . If adjustment was done refer to 'Correction after adjustment' to derive the true value.

Note 7: (*) Out of specification

Note 8: N/A - Not Available.



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Technical Information

Readability : 0.1 °C
Manufacturer Specification : N/A

Calibration Results :

Accuracy Test

Temperature °C

Calibration Humidity : 50% RH

Temperature Reading	Correction	
	Before Adjustment	After Adjustment
15	+ 0.2	N/A
20	0.0	N/A
25	- 0.2	N/A
30	- 0.1	N/A
35	- 0.3	N/A

Measurement Uncertainty : ± 0.2 °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 Temp. 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 : If no adjustment was done refer to 'Correction before adjustment'. If adjustment was done refer to 'Correction after adjustment' to derive true value.

Note 6 : N/A = Not Available.

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