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

MS ISO/IEC 17025
CALIBRATION
SAMM NO. 082

CERTIFICATE OF CALIBRATION

Certificate No : SM14388106 **Date of Issue** : 29 Oct 2014

Issued By : Sendi Mahir Sdn Bhd

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

Instrument : Anemometer

Manufacturer : TPI

Model/Type : 575

Serial No : 16426460047

Capacity : -

Resolution : 0.1 m/s ; 0.1°C

Condition Upon Receiving : Good in Physical Condition

Condition Upon Returning : Calibrated and Tested Serviceable.

Calibration Date : 29 Oct 2014

Recalibration Date Specified By Customer : 29 Oct 2015

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.

Calibration Environment Condition:

Temperature : 23.4 to 23.7 °C

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

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CERTIFICATE OF CALIBRATION

Certificate No : SM14388106

Technical Information

Type of Sensor : Hotwire
Readability : 0.1 m/s

Manufacturer Specification :
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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CERTIFICATE OF CALIBRATION

Certificate No : SM14388106

Technical Information

Type of Sensor : Vane
Readability : 0.1 m/s

Manufacturer Specification :
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).
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*Note 7: (*) Out of specification*
Note 8: N/A - Not Available.

SENDI MAHIR
SMSB
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STANDARDS MALAYSIA ACCREDITED LABORATORY
MS ISO/IEC 17025
CALIBRATION
SAMM NO. 082

CERTIFICATE OF CALIBRATION

Certificate No : SM14388106

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.