



TEST REPORT



ULR Number: TC1540526000000055F

Report Number: 80260300076001

1 Details of Customer / Applicants:

Applicant's Name	M B Control & Systems Pvt. Ltd.
Address	M.B. Control & Systems Pvt. Ltd. Srijan industrial Logistic Park, Part – A, Block – B, 3 rd Floor, NH – 06. Howrah – 711302, West Bengal, India
Client Representative	Mr. Vaibhav Agarwal Email: : vaibhav@mbcontrol.com
Date of issue	11-08-2026
No Of Pages	12 Pages
Test Report Version.....	1.00
EUT ID/Sample ID	BLC-01-1053639-001
Name of Testing Laboratory preparing the Report	TUV SUD South Asia Pvt Ltd.
QR Code	

1.1 General disclaimer:

- Unless otherwise agreed upon, Pass or Fail or Statement of compliance verdicts are given based on the measured values without any considerations of measurement uncertainties. Every test method has a measurement uncertainty which has been evaluated by the laboratory and are available on request. By taking measurement uncertainty into account, it might happen that measured values can neither be assessed as Pass nor as Fail.
- The test results presented in this report relate only to the object/Equipment tested.
- This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory.
- The testing conditions are followed as per the reported test standard. For additional test conditions, apart from the reported test conditions, the laboratory can be contacted for details.
- The laboratory will retain the EUT (s) for 45 days except for the mandatory retention period specified by the Regulatory Bodies and unless otherwise specified by the client.
- Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object/equipment in question and is not generally applicable evaluation of the quality of other products in regular production.
- The correctness of the information related to EUT(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.
- Laboratory does not involve in sampling if it is not mentioned in report.
- Any amendment or update required to report should be informed within 30 days from date of issue of the report.
- The information given in this report, such as name of test EUT, trademark, part no/id no, supplier, customer etc., are based on the information received from the customer, TUVSUD South Asia Pvt. Ltd., does not take any responsibility for the authenticity of such information.



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Prepared by	Reviewed & authorized by
<i>P. Vemana.</i>	<i>Sathisha C N</i>
Name & Date: Purimitla Vemana & 11-08-2026	Name & Date: Sathisha C N & 11-08-2026
Test Engineer/ Testing Officer	Lab-Manager



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2 Description of the Equipment Under Test (EUT/DUT):

2.1 Test item particulars:

EUT Received Date	10-07-2026
EUT received condition.....	☒ Good ☐ Others (If applicable Specify)
Equipment mobility.....	☐ Movable ☐ Hand-held ☒ Transportable ☐ Stationary ☐ For building-in ☐ Direct plug-in
Category	☐ Automotive ☐ Avionics ☐ Consumer Electronics ☒ Industrial ☐ Information Technology ☐ Laboratory ☐ Medical ☐ Telecom ☐ Naval ☐ Lighting ☐ Railway ☐ Military ☐ Consumer/Household ☐ Others
Operating condition.....	☒ ON Condition ☐ OFF Condition ☐ Operating / OFF time ☐ ON During Last 30min/1Hr. ☐ Others (Specify)
Purpose of the test	☐ Development Analysis ☒ Performance Testing

2.2 EUT/DUT Details:

EUT Name	Ambient Air Parameters Sensor
Manufacturer	M B Control & Systems Pvt. Ltd
Address	M.B. Control & Systems Pvt. Ltd. Srijan industrial Logistic Park, Part – A, Block – B, 3 rd Floor, NH – 06. Howrah – 711302, West Bengal, India
Trademark	
Model Number	MBMet901FB
Part Number	NA
Serial Number	26199
EUT Dimensions	220 x 18.1 x 18.1 mm
Mass of EUT (kg)	42 grams
Number EUT's to be Tested	01 No
Accessories	SMPS (Power Supply) and cable
Power Supply (Voltage, Amps, and Watts)	9-32VDC



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2.2.1 General Product Information:

MBMet 901 series offers highly accurate, fully calibrated and stable measurement of Atmospheric Air Temperature, Relative Humidity, Barometric Pressure, Air Density and Dew Point

3 Summary of tests Performed:

Sl. No.	Type of Testing	Standard / Edition	EUT Condition	Test Start Date	Test End Date
1	Damp Heat, Steady State Test	IEC 60068-2-78	ON Condition	21-07-2026	22-07-2026

3.1 Details About the Testing Laboratory

Testing Laboratory Name	TUV SUD South Asia Pvt Ltd.
Testing Location / Address	Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru, Bengaluru North Taluk Pin code – 562149, India.
Contact Person / Details	Mr. Sathisha C N & Environmental & Mechanical – Lab Manager

3.1.1 Test Report Amendment History

Sl. No	Revision No.	Revision Date	Page No.	Reason for Amendment	Amendments made	Issued By (Designation)	Approved By (Designation)

Note: NA



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3.1.2 General Information & Accreditation approval details:

Following is the accreditation and approvals.

Accreditation / Approvals	Registration / Certificate Number
NABL: National Accreditation Board for Testing and Calibration Laboratories	Certificate No: TC-15405

4 Environmental Condition:

Temperature (°C)	22.8
Humidity (%RH)	53.2
Pressure (hPa)	910.7

Table 1: Environmental Condition

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5 Photos of Equipment Under Test (EUT/DUT):

		
		
	Ambient Air Parameters Sensor Model: MBMet901FB Serial Number: 26199 Made in India www.mbcontrol.com	

Figure 1: Equipment Photos

6 Environmental Testing: Damp Heat, Steady State Test

6.1 Test Setup Photos / Images



Figure 2: Damp Heat, Steady State Test Setup Photo

6.1.1 Test Specifications:

Parameter	Requirements
Test Name	Damp Heat Steady State Test
Standard	IEC 60068-2-78
Pre- condition	2 Hours
Temperature	+40°C
Humidity	95 %RH
Duration	16 Hours
Ramp Rate	1°C /Minute
Recovery	2 Hour
EUT Condition	ON Condition

Table 2: Damp Heat Steady Test Specification

6.1.2 Test Procedure:

- The climatic chamber switched ON and verified the working conditions before starting the test.
- The test profile was created as per the specifications given.
- Test sample was placed inside the test chamber.
- The test was executed with automatic operation, and the test plot was generated at the end of the test.
- After completion of the test as per the profile, verified the chamber conditions and switched OFF

6.1.2.1 Initial, Intermediate, and final measurements of the EUT/DUT

- No physical damages were observed initial stages; equipment is powered on no errors observed.

6.1.3 Test Graphs:

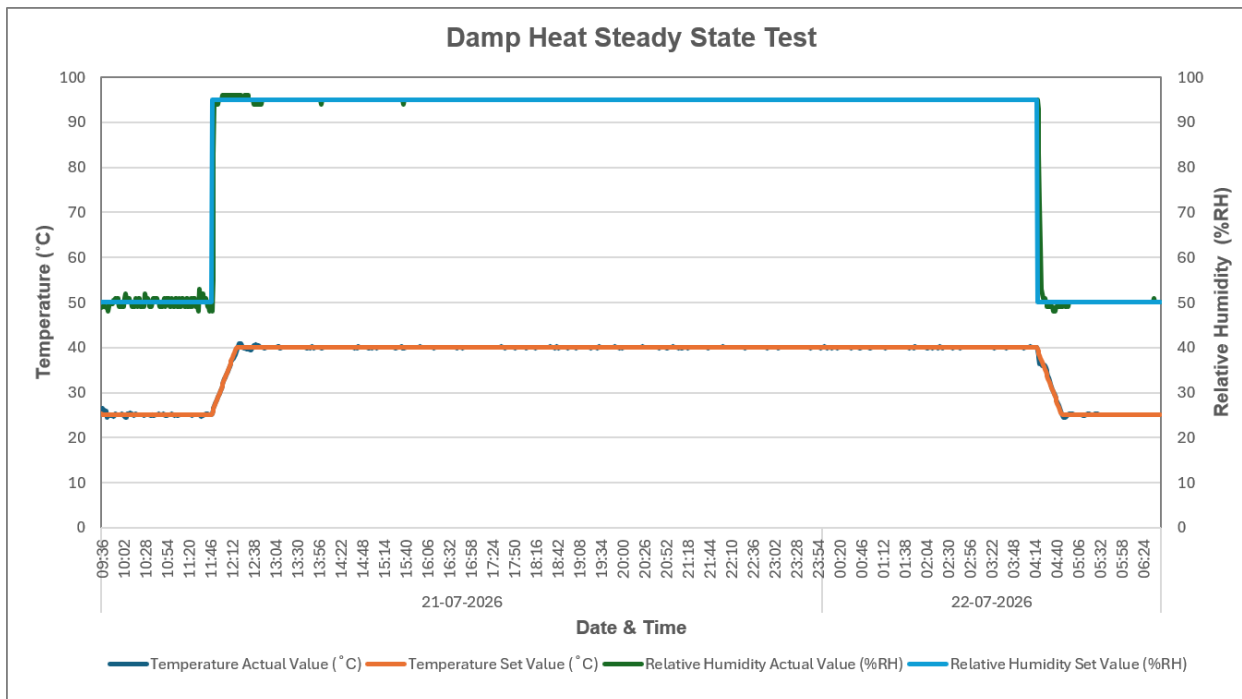


Figure 3: Damp Heat Steady State Test Graph

6.1.4 Remarks/Observations/ Results:

- NO physical damages were observed before and after completion of the test on the test samples.
- The equipment powered ON through testing, NO errors were observed during the testing.



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7 Details of Equipment's and Calibration:

The list of following equipment used for this testing conforms to the applicable standards. Performance of all tests and measuring equipment including any accessories are checked periodically to ensure accuracy.

7.1 List of Equipment Used:

Equipment ID	Name of the Equipment	Make / Model Number	Serial Number	Calibration Due Date
TSA/CAMP/ENE/ENV/EQ/23/010	Climatic Chamber	PAC-225-B-3K	121148	15-12-2026
TSA/CAMP/ENE/ENV/EQ/23/019	Digital Humidity/Baro/Temp. Data Recorder	MHB-382SD	T.070169	20-08-2026

Table 3: List of Equipments Used

8 Acronyms

RH	Relative Humidity
Kg	Kilo gram
N/A	Not Applicable/ Available
EUT	Equipment Under Test
DUT	Device Under Test
hPa	Hectopascals
°C	Degree Centigrade
%	Percentage
Sl.No	Serial Number
m/s	Meter per second

Table 4: Acronyms

End of report