

# CENTRAL POWER RESEARCH INSTITUTE

## TEST REPORT



**CPRI**

**Test Report Number** : CPRI BLRMUADEMTLMISC19T0053 **Dated:** 27.06.2019

**Name & Address of the Customer** : M/s. Robert Bosch Engineering & Business Solutions Pvt. Ltd.,  
123, Industrial Layout, Hosur Road, Koramangala,  
Bangalore – 560 095

**Name & Address of the Manufacturer** : M/s. Robert Bosch Engineering & Business Solutions Pvt.Ltd.,  
123, Industrial Layout, Hosur Road, Koramangala,  
Bangalore – 560 095

**Particulars of sample tested**  
**Condition of Sample on receipt** : New  
**Type** : Model No: AD00 A2 0 005  
**Description of test sample** : Asset Monitoring Unit (BOSCH PHANTOM)  
**Serial Number** : RBSGS18121R11V1R00097  
**Number of samples tested** : One  
**Date (s) of Test (s)** : 19.06.2019  
**CPRI Sample code No(s).** : MUADEMTLMISC19S0074  
**Particulars of tests conducted** : Accuracy Test (Active Energy)

**Test in accordance with Standard / Specification** : Nil  
**Sampling Plan** : Not Applicable  
**Customer's Requirement** : Test conducted as per Customer requirement.  
**Deviations if any** : Nil

**Name of the witnessing persons**  
**Customers representative** : Mr. Santhosh Nayak  
**Other than customer's representatives** : Nil  
**Test subcontracted with address of the laboratory** : None

**Documents constituting this report (in words)**  
**Number of sheets** : Four (04)  
**Number of oscillogram/s** : Nil  
**Number of graphs** : Nil  
**Number of photos** : Nil  
**Number of Test circuit Diagrams** : Nil  
**Number of Drawings** : Nil

*U.S.*

(Usha Kiran H.S)  
Test Engineer



*V. Suresh*  
(V. Suresh)  
Head of Division  
Approved By

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**1.0 Particulars of Sample Tested** : Asset Monitoring Unit (BOSCH PHANTOM)  
1-Phase 2-Wire/ 3-Phase 4-Wire, Rated voltage = 3x240Volts, 50 Hz,  
 $I_{basic}=5A$ ,  $I_{max}=200A$ , Transformer connected,  
Class of Insulation: Insulating encased meter of  
protective class II (  ).

**2.0 Reference Conditions of Measurement** :  $27 \pm 2^{\circ}C$

**3.0 Standard / Calibrator used** :

Nomenclature	Make/Model	Accuracy
Sub Standard Meter	Zera GmbH/EPZ 303-5	0.02%

**4.0 Terms Used** :

DUT: DEVICE UNDER TEST

%Error in DUT =  $\frac{\text{Energy registered in DUT} - \text{True energy}}{\text{True energy}} \times 100$

(Usha Kiran H.S)  
Test Engineer

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## TEST RESULTS

### 1.0 ACCURACY TEST (ACTIVE ENERGY):

Voltage applied to DUT =  $V_{rn}=V_{yn}=V_{bn}= 240$  Volts, 50Hz.

Sl. No.	Applied Current to DUT ( $I_r=I_y=I_b$ ) (A)	Applied Power Factor to DUT	Calculated %Error in DUT
1.	5.0	UPF	4.14
2.	5.0	0.5 Lag	4.10
3.	5.0	0.8 Lead	3.58
4.	60.0	UPF	1.75
5.	60.0	0.5 Lag	0.52
6.	60.0	0.8 Lead	3.84
7.	100.0	UPF	-2.02
8.	100.0	0.5 Lag	1.25
9.	100.0	0.8 Lead	-2.29

(Usha Kiran H.S)  
Test Engineer

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Dated: 27.06.2019

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### NOTE

- a) The Test results relate only to the item(s) tested.
- b) Publication or reproduction of the test report in any form other than by complete set of the whole test report and in the language written is not permitted without the written consent of CPRI.
- c) Any Corrections/erasure invalidates the test report.
- d) Any anomaly/discrepancy in the test report should be brought to the notice of CPRI within 45 days from the date of issue.

*UHC*

(Usha Kiran H.S)  
Test Engineer