

Test Report No: SMR(K)/EMCD-TR/22-23/001/006

## **POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST REPORT FOR WMS DATALOGGER**

Customer:

M/s. M. B. CONTROL & SYSTEMS PVT. LTD.  
31/1, AHIRIPUKUR ROAD, KOLKATA – 700019, WB,  
INDIA

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SAMEER Kolkata Centre



**SAMEER KOLKATA CENTRE**

**[SOCIETY FOR APPLIED MICROWAVE ELECTRONICS ENGINEERING AND RESEARCH]**

R & D LABORATORY OF  
MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY [MeitY]  
GOVT. OF INDIA  
PLOT – L2, BLOCK – GP, SECTOR – V, SALT LAKE ELECTRONICS COMPLEX,  
KOLKATA-700 091, INDIA

JUNE, 2022

ULR-TC404522000000006F

SAMEER KOLKATA CENTRE, KOLKATA – 700 091

**POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST REPORT FOR WMS DATALOGGER****Test Report Particulars**

Certificate No. TC-4045

- 01 Equipment under Test : WMS DATALOGGER
- 02 Number of test sample : One
- 03 Model Number of EUT : MBLOGGER 1000 PRO
- 04 Serial number of EUT : 2205XP01012
- 05 Brand : Nil
- 06 Manufacturer : M/s. M. B. CONTROL & SYSTEMS PVT. LTD
- 07 Customer : M/s. M. B. CONTROL & SYSTEMS PVT. LTD.  
31/1, AHIRIPUKUR ROAD, KOLKATA – 700019, WB, INDIA
- 08 Type of test requested : Power Frequency Magnetic Field Immunity Test
- 09 Test Specifications : IEC 61000-4-8, Edition 2.0      2009-09
- 10 Sample Received on : 13<sup>th</sup> May, 2022
- 11 EUT condition : Functional
- 12 Tested on : 13<sup>th</sup> May, 2022
- 13 Test Venue : SAMEER KOLKATA CENTRE
- 14 Test Witnessed by : Mr. SHAMIBRATA BHOWAL (QUALITY CONTROL ENGINEER)
- 15 Test Request Number : SMR(K)/EMCD-TRQ /22-23/001

The **WMS DATALOGGER** has been tested for the parameters reflected in the subsequent pages and the data reported in this report is valid only for the test sample mentioned above and under the stated condition of measurement. Particulars of manufacturer/supplier, given in this report, are based on the information given by the customer, along with the test request. **SAMEER KOLKATA CENTRE** does not bear any responsibility for the correctness of that information for the above mentioned equipment under test.

Test Report Prepared by

Reviewed by

Reviewed &amp; Approved By

Office seal &  
Issued date

N.K. SADHU

J.PRAKASH

SATYA.IIT CHAKRABARTI

EMC ENGINEER IN-CHARGE TECH SUPPORT

QM / TM



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Equipment under test : WMS DATALOGGER  
 Model No. : MBLOGGER 1000 PRO  
 Sl. No. : 2205XP01012  
 Customer : M/s. M. B. CONTROL & SYSTEMS PVT. LTD

# **POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST REPORT FOR WMS DATALOGGER**

## **1.0 POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST**

**1.1 APPLICABLE STANDARD:** IEC 61000-4-8 Edition 2.0 2009-09

## **1.2 TEST SPECIFICATIONS:**

Test levels : 5  
 Magnetic field strength : 100A/m (continuous field)  
 \* Frequency : 50 Hz

## **1.3 TEST INSTRUMENT USED:**

EQUIPMENT	MAKE	MODEL NO.	SERIAL NO.	LAST CAL DATE
Helmholtz Coil	SAMEER KOLKATA CENTRE	HLMTZ1103	HMLC060	03.02.2022*
Auto Transformer	DIMMERSTAT	28D - 1P	1003/03/226/9	03.02.2022*
True RMS MultiMeter	Fluke	289	38060015	25.08.2021
AC/DC current clamp	Fluke	i1010	47910438	25.08.2021

\* Internal Performance Verification

## **1.4 ENVIRONMENTAL CONDITION:**

Temperature : 27.2 °C  
 Humidity : 58.3 %

## **1.5 LOAD USED : No load.**

## **1.6 TEST PROCEDURE :**

As per SMR(K)/OP/08; Issue 02, dated 4<sup>th</sup> June, 2012; Revision 01, dated 17<sup>th</sup> June 2016.

EUT was configured for supply connection to 12V<sub>DC</sub>. After the AC power source (Auto Transformer) and EUT were switched "ON", 10 minutes were allowed for stabilization. Current amplitude in the coil was increased to generate the required level of H-field as mentioned in level-5 of the referred standard.

## **1.7 EVALUATION OF TEST RESULTS:**

During and after test run, no impact on the normal functioning of the EUT was noticed. Normal performance within the limits specified by the manufacturer, Requestor or purchaser.

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 Model No. : MBLOGGER 1000 PRO  
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**POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST REPORT FOR WMS DATALOGGER**

**1.10 PHOTOGRAPH OF THE EUT( EQUIPMENT UNDER TEST)**

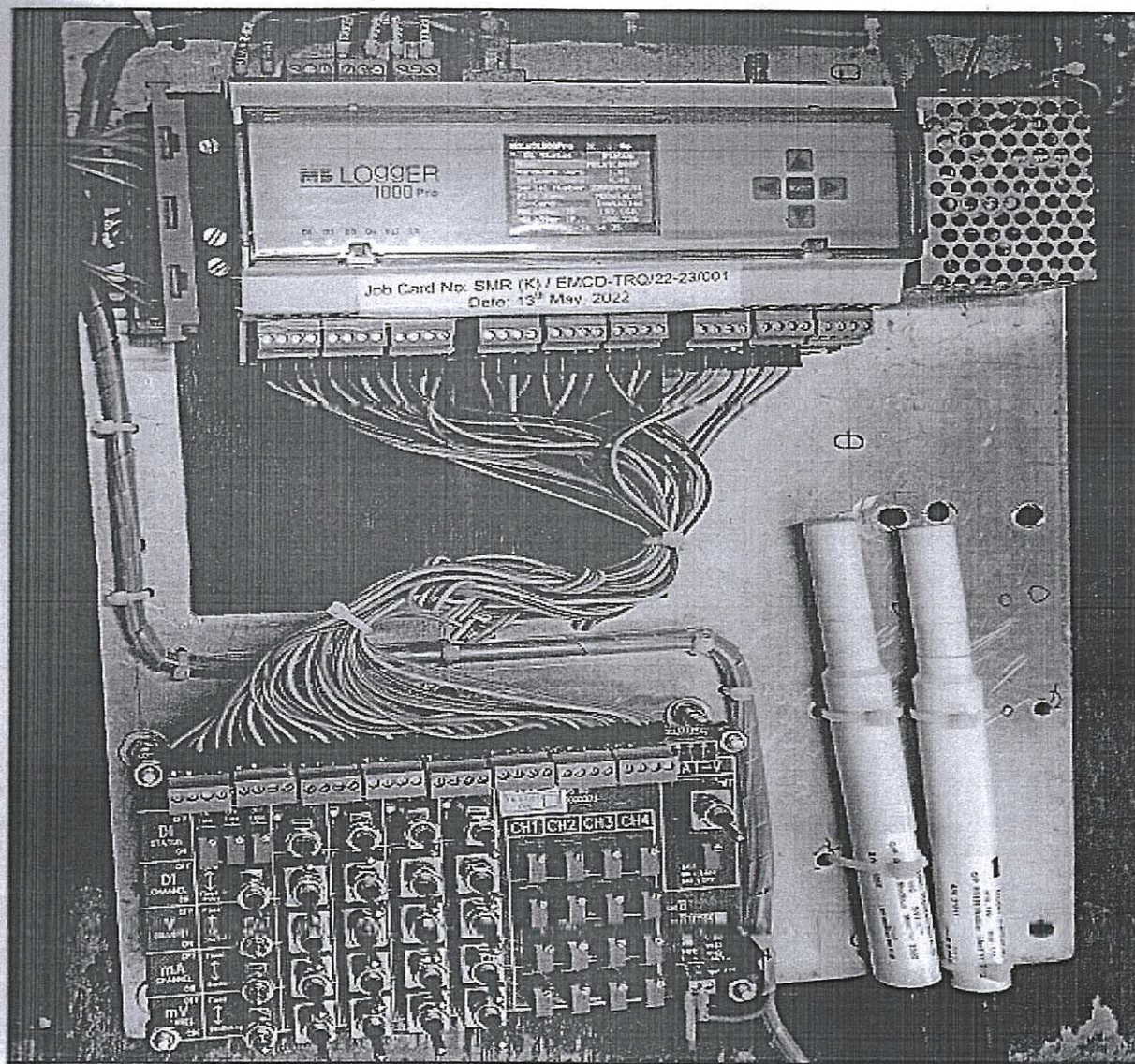


Fig. 2: Photograph of the WMS DATA LOGGER.

TEST CONDUCTED BY:

*J. Prakash*

J. PRAKASH

IN-CHARGE TECH. SUPPORT

*N.K. Sadhu*

N.K. SADHU

EMI/EMC ENGINEER



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