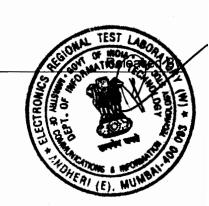
ELECTRONICS REGIONAL TEST LABORATORY (WEST) REPORT NO. MINISTRY OF COMMUNICATIONS AND INFORMATION ERTL (W)/ 2004EMI 346 **TECHNOLOGY (STQC DTE)** SUBJECT: EMC TESTING ON AC CURRENT TRANSDUCER DATE PAGE **OF** ►:7 DEC 2005 4 1 1. SCOPE 1,1 Service Request No ERTL (W)/2005 / 20051975 Service Request finalised on 10-NOV-2005 .1.1.1 1.2 Requested by MECO INSTRUMENTS PVT.LTD. (Name and address of manufacturer) 301, BHARAT INDL.ESTATE, T.J.ROAD, SEWAREE, MUMBAI - 400 015 1.3 Item Description Qty Manufacturer Type No. Sr. No. No. AC CURRENT 01 MECO INSTRUMENTS CMT 055483 1. TRANSDUCER PVT.LTD. Test specifications IEC 61000-4-12 :2000. 1.4 1.5 Laboratory Ambient 1. Temp : 25 + 2 ° C 2. Humidity: 55 ± 5% Test Equipment used: 1. Test generator (Schaffner NSG 505 HF) 1.6 2. Coupling network (Schaffner NSG 523)



3. Interference voltage distributor accessory

(Schaffner)

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2.0 Equipment Under test (EUT) Description:

2.1 AC CURRENT TRANSDUCER finds application in industrial use.

2.2 Performance Function of Equipment under Test (EUT)

- Connect 230 V AC / 50 Hz single phase supply to Aux terminal.
- Apply input current 0 5A on input terminal.
- Connect 0 500 ohms load resistor to output terminals.
- Measure output current on output terminals, it is between 4 20mA.

2.3 Functional check for all immunity tests.

Performance Criteria- 'A'

The EUT shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed.

Performance Criteria - 'B'

The EUT shall continue to operate as intended during and after the test. During the test, degradation of performance is however allowed. No change of actual operating state or stored data is allowed.

Performance Criteria - 'C'

Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.



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3.0 Test Results:

3.1 HIGH FREQUENCY DISTURBANCE.

Test Rationale:

To check oscillatory wave immunity requirements for Electrical/Electronic equipment connected to low voltage power supply.

a Test Condition:

Specification

As per IEC 61000-4-12.

Set-up

As per IEC 61000-4-12.

Mode of simulation:

Transverse (Differential mode): 1 kV peak

Frequency:

1MHz Damped Oscillatory

Test level

3

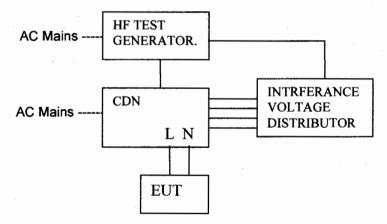
Duration:

2 seconds

Application:

On Aux. Terminal 230VAC main supply through CDN.

- b EUT in normal operating condition.
- c Test procedure:



d Requirement:

Performance Criterion B, temporary degradation or loss of function is allowed during the test. After the test EUT shall function normal.

e Observations

Output of the EUT was found fluctuating during the test which was self recoverable and after the test it was functioning normal as per sr. no.2.2.

f Results

Complied (Meets Performance Criterion B)



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4.0 General Remarks: Testing was carried out on 2/12/ 2005 at ERTL(W), MUMBAI

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