

ELECTRONICS REGIONAL TEST LABORATORY (WEST) MINISTRY OF INFORMATION TECHNOLOGY ( STQC Dtc.)	REPORT NO.		
	ERTL(W) / 99E&S123		
SUBJECT: TYPE TESTING OF DIGITAL MULTIMETER	DATE	PAGE	OF
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1. SCOPE

1.1 Service Request No : ERTL(W) / 991745 DT.18-NOV-1999

1.1.1 Service Request finalised on : 18-NOV-1999

1.2 Requested by : **RISHABH INSTRUMENTS P.LTD.**  
(Name and address of organisation) **F-31, MIDC, SATPUR,**  
**NASIK-7,**

1.3	Item No.	Description	Qty	Manufacturer and Type * No.	Serial Nos.
	1.	ELECTRONIC MEASURING INSTRUMENTS DIGITAL MULTIMETER	01	RISHABH INSTRUMENTS Model : 13 S	990748

1.4 Test specifications : As per IS 13875

1.5 Lab Ambient  
Temperature : (25 ± 2) deg.C  
Humidity : (55 ± 5) % RH

1.6 Test Equipment used :

1) DC Power Supply	E&S//088
2) Calibration System	S&C/138
3) Environmental Chamber	ENV/005,075
4) Shock Test Machine	ENV/018
5) Vibration System	ENV/008,015
6) Digital Multimeter	E&S/120



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## 2.0 Test Results

### 2.1 Intrinsic Error Test : Initial accuracy test carried out at 25 deg. C / 55 % RH

Sr. No	Parameter / Range	Input to UUT	Allowed error in +/- digits	Observed error in digits	Remark
	DC Voltage /				
1	30.0 mV	3.0 mV	5	+4	Complied
2		15.0 mV	11	+4	-- do --
3		27.0 mV	17	+3	-- do --
4	300.0 mV	30.0 mV	5	0	-- do --
5		150.0 mV	11	0	-- do --
6		270.0 mV	17	0	-- do --
7	3.0 V	.30 V	2	-1	-- do --
8		1.50 V	5	-1	-- do --
9		2.70 V	8	-2	-- do --
10	30.0 V	3.0 V	2	-1	-- do --
11		15.0 V	5	-2	-- do --
12		27.0 V	8	-3	-- do --
13	300.0 V	30.0 V	2	-1	-- do --
14		150.0 V	5	-2	-- do --
15		270.0 V	8	-4	-- do --
16	1000 V	100.0 V	1	-1	-- do --
17		500.0 V	3	-1	-- do --
18		900.0 V	4	-1	-- do --
	AC Voltage (at 50 Hz)				
19	3.0 V	.30 V	4	0	-- do --
20		1.50 V	13	-1	-- do --
21		2.70 V	22	-2	-- do --
22	30.0 V	3.0 V	4	-1	-- do --
23		15.0 V	13	-2	-- do --
24		27.0 V	22	-3	-- do --
25	300.0 V	30.0 V	4	-1	-- do --
26		150.0 V	13	-2	-- do --
27		270.0 V	22	-4	-- do --
28	1000 V	100.0 V	3	0	-- do --
29		500.0 V	6	-1	-- do --
30		900.0 V	9	-1	-- do --
	AC Current (at 50 Hz)				
31	30.0 mA	3.0 mA	7	-2	-- do --
32		15.0 mA	25	-4	-- do --
33		27.0 mA	43	-6	-- do --
34	300.0 mA	30.0 mA	7	-1	-- do --
35		150.0 mA	25	+1	-- do --
36		270.0 mA	43	+2	-- do --
37	16.0 A	1.6 A	4	-1	-- do --
38		8.0 A	14	+2	-- do --
39		14.4 A	24	+5	-- do --



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2.0 Test Results :

Sr. No	Parameter / Range	Input to UUT	Allowed error in +/- digits	Observed error in digits	Remark
<b>DC Current</b>					
40	3.00 mA	0.30 mA	8	+ 1	Complied
41		1.50 mA	20	- 2	-- do --
42		2.70 mA	32	- 3	-- do --
43	30.0 mA	3.0 mA	3	- 1	-- do --
44		15.0 mA	6	- 2	-- do --
45		27.0 mA	9	- 3	-- do --
46	300.0 mA	30.0 mA	5	0	-- do --
47		150.0 mA	17	+ 3	-- do --
48		270.0 mA	29	+ 4	-- do --
49	3.0 A	0.300 A	8	+ 1	-- do --
50		1.50 A	20	0	-- do --
51		2.70 A	32	+ 2	-- do --
52	16.0 A	1.6 A	4	0	-- do --
53		8.0 A	10	+ 3	-- do --
54		14.4 A	16	+ 6	-- do --
<b>Resistance /</b>					
55	30.00 ohm	3.0 ohm	5	+ 3	-- do --
56		15.0 ohm	11	+ 3	-- do --
57		27.0 ohm	17	+ 2	-- do --
58	300.0 ohm	30.0 ohm	5	+ 1	-- do --
59		150.0 ohm	11	0	-- do --
60		270.0 ohm	17	0	-- do --
61	3.0 kohm	.3 Mohm	2	0	-- do --
62		1.5 k ohm	7	0	-- do --
63		2.7 k ohm	12	0	-- do --
64	30.0 kohm	3.0 k ohm	2	0	-- do --
65		15.0 k ohm	7	0	-- do --
66		27.0 k ohm	12	- 1	-- do --
67	300 kohm	30.0 kohm	2	- 1	-- do --
68		150.0 kohm	7	- 1	-- do --
69		270.0 kohm	12	- 5	-- do --
70	3.0 Mohm	.3 Mohm	3	- 1	-- do --
71		1.5 Mohm	10	- 4	-- do --
72		2.7 Mohm	17	- 9	-- do --
73	30.0 Mohm	3.0 Mohm	7	+ 2	-- do --
74		15.0 Mohm	31	0	-- do --
75		27.0 Mohm	55	- 6	-- do --
<b>Temperature</b>					
76	Pt - 100	- 180 C /	25	- 1	-- do --
77		+ 180 C /	25	- 2	-- do --
78		+ 400 C /	45	- 3	-- do --
79		+ 600 C /	65	+ 8	-- do --



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## 2.0 Test Results

### 2.2. INFLUENCE ERROR :

2.2.1 Temperature : Influence due to change in ambient temperature was carried out at 0 deg.C, 23 deg. C and 40 deg. C and maximum variation observed w.r.t. 23 deg. C was reported.

Sr. No	Parameter / Range	Input to UUT	Max. allowed variation in +/- digits / ° K	Observed Variation in +/- digits / ° K	Remark
	DC Voltage /		Shall be within		
1	30.0 mV	27.0 mV	3.0	+ 0.13	Complied
2	300.0 mV	270.0 mV	3.0	- 0.087	-- do --
3	3.0 V	2.70 V	0.5	+ 0.059	-- do --
4	30.0 V	27.0 V	0.5	+ 0.059	-- do --
5	300.0 V	270.0 V	0.5	- 0.13	-- do --
6	1000 V	900.0 V	0.28	- 0.087	-- do --
	AC Voltage ( at 50 Hz.)				
7	3.0 V	2.70 V	1.28	- 0.059	-- do --
8	30.0 V	27.0 V	1.28	+ 0.059	-- do --
9	300.0 V	270.0 V	1.28	+ 0.176	-- do --
10	1000 V	900.0 V	0.56	- 0.087	-- do --
	DC Current				
11	3.00 mA	2.70 mA	1.45	- 0.217	-- do --
12	30.0 mA	27.0 mA	1.45	- 0.13	-- do --
13	300.0 mA	270.0 mA	1.45	- 0.174	-- do --
14	3.00 A	2.70 A	1.45	- 0.304	-- do --
15	16.0 A	14.4 A	0.82	+ 0.059	-- do --
	AC Current (at 50 Hz.)				
16	30.0 mA	27.0 mA	2.1	+ 0.118	-- do --
17	300.0 mA	270.0 mA	2.1	- 0.13	-- do --
18	16.0 A	14.4 A	1.2	+ 0.118	-- do --
	Resistance	Input to UUT			
19	30.0 ohm	27.0 ohm	0.605	- 0.087	-- do --
20	300.0 ohm	270.0 ohm	0.875	+ 0.174	-- do --
21	3.0 kohm	2.70 k ohm	0.505	+ 0.13	-- do --
22	30.0 kohm	27.0 k ohm	0.505	- 0.412	-- do --
23	300.0 kohm	270.0 k ohm	0.505	- 0.217	-- do --
24	3.00 Mohm	2.7 Mohm	0.505	+ 0.353	-- do --
25	30.0 Mohm	27.0 Mohm	2.8	- 0.217	-- do --
	Temperature				
26	-200 to +200 C	- 180 C	0.7	- 0.235	-- do --
27		+ 180 C	0.7	+ 0.261	-- do --
28	+200 to +850 C	+ 400 C	2.2	+0.348	-- do --
29		+ 600 C	3.2	- 0.412	-- do --



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## 2.0 Test Results

2.2.2 Relative Humidity : Test carried out at 50 % RH and 75 % RH and observed variation was reported.

Sr. No	Parameter / Range	Input to UUT	Max. allowed variation in +/- digits	Variation Observed in digits	Remark
<b>DC Voltage /</b>					
1	30.0 mV	27.0 mV	17	+ 1	Complied
2	300.0 mV	270.0 mV	17	0	-- do --
3	3.0 V	2.70 V	8	0	-- do --
4	30.0 V	27.0 V	8	0	-- do --
5	300.0 V	270.0 V	8	0	-- do --
6	1000 V	900.0 V	4	0	-- do --
<b>AC Voltage (at 50 Hz)</b>					
7	3.0 V	2.70 V	22	0	-- do --
8	30.0 V	27.0 V	22	0	-- do --
9	300.0 V	270.0 V	22	0	-- do --
10	1000 V	900.0 V	9	- 1	-- do --
<b>DC Current</b>					
11	3.00 mA	2.70 mA	32	- 1	-- do --
12	30.0 mA	27.0 mA	9	+ 1	-- do --
13	300.0 mA	270.0 mA	29	0	-- do --
14	3.00 A	2.70 A	32	+ 3	-- do --
15	16.0 A	14.4 A	16	+ 1	-- do --
<b>AC Current (at 50 Hz)</b>					
16	30.0 mA	27.0 mA	43	+ 1	-- do --
17	300.0 mA	270.0 mA	43	0	-- do --
18	16.0 A	14.4 A	16	- 1	-- do --
<b>Resistance</b>					
19	30.0 ohm	27.0 ohm	17	- 5	-- do --
20	300.0 ohm	270.0 ohm	17	- 1	-- do --
21	3.0 kohm	2.70 k ohm	12	0	-- do --
22	30.0 kohm	27.0 k ohm	12	0	-- do --
23	300.0 kohm	270.0 k ohm	12	0	-- do --
24	3.00 Mohm	2.7 Mohm	12	0	-- do --
25	30.0 Mohm	27.0 Mohm	55	0	-- do --
<b>Temperature</b>					
26	-200 to +200 C	- 180 C	25	0	-- do --
27		+ 180 C	25	0	-- do --
28	+200 to +850 C	+ 400 C	45	0	-- do --
29		+ 600 C	65	+ 1	-- do --



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## 2.0 Test Results

2.2.3 Change in Position : Test carried out at + 10 deg. & - 10 deg. inclination and the variations between the respective inclinations & reference position noted. Max. variation observed w.r.t. reference position reported.

Sr. No	Parameter / Range	Input to UUT	Max. allowed variation in +/- digits	Variation Observed in digits	Remark
	DC Voltage /				Pl. see 3.1 of general remarks.
1	30.0 mV	27.0 mV	-----	- 3	-----
2	300.0 mV	270.0 mV	-----	0	-----
3	3.0 V	2.70 V	-----	0	-----
4	30.0 V	27.0 V	-----	0	-----
5	300.0 V	270.0 V	-----	0	-----
6	1000 V	900.0 V	-----	0	-----
	AC Voltage (at 50 Hz)				
7	3.0 V	2.70 V	-----	0	-----
8	30.0 V	27.0 V	-----	- 1	-----
9	300.0 V	270.0 V	-----	0	-----
10	1000 V	900.0 V	-----	0	-----
	DC Current				
11	3.00 mA	2.70 mA	-----	- 9	-----
12	30.0 mA	27.0 mA	-----	- 6	-----
13	300.0 mA	270.0 mA	-----	- 3	-----
14	3.00 A	2.70 A	-----	- 10	-----
15	16.0 A	14.4 A	-----	- 1	-----
	AC Current (at 50 Hz)				
16	30.0 mA	27.0 mA	-----	+ 1	-----
17	300.0 mA	270.0 mA	-----	+ 1	-----
18	16.0 A	14.4 A	-----	- 1	-----
	Resistance				
19	30.0 ohm	27.0 ohm	-----	- 7	-----
20	300.0 ohm	270.0 ohm	-----	0	-----
21	3.0 kohm	2.70 k ohm	-----	0	-----
22	30.0 kohm	27.0 k ohm	-----	0	-----
23	300.0 kohm	270.0 k ohm	-----	+ 1	-----
24	3.00 Mohm	2.7 Mohm	-----	+ 2	-----
25	30.0 Mohm	27.0 Mohm	-----	- 2	-----
	Temperature				
26	-200 to +200 C	- 180 C	-----	- 3	-----
27		+ 180 C	-----	- 2	-----
28	+200 to +850 C	+ 400 C	-----	0	-----
29		+ 600 C	-----	- 1	-----



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## 2.0 Test Results

2.2.4 Change in Supply Voltage : Test carried out 6.9 V and 10.0 V and corresponding variation w.r.t. 8.0 V supply voltage noted. Maximum variation observed w.r.t. 8.0 V supply reported.

Sr. No	Parameter / Range	Input to UUT	Max. allowed variation in +/- digits	Variation Observed in digits	Remark
	<b>DC Voltage /</b>				
1	30.0 mV	27.0 mV	2	+ 2	Complied
2	300.0 mV	270.0 mV	2	0	-- do --
3	3.0 V	2.70 V	2	- 1	-- do --
4	30.0 V	27.0 V	2	0	-- do --
5	300.0 V	270.0 V	2	0	-- do --
6	1000 V	900.0 V	2	0	-- do --
	<b>AC Voltage (at 50 Hz)</b>				
7	3.0 V	2.70 V	4	0	-- do --
8	30.0 V	27.0 V	4	+ 1	-- do --
9	300.0 V	270.0 V	4	+ 2	-- do --
10	1000 V	900.0 V	4	0	-- do --
	<b>DC Current</b>				
11	3.00 mA	2.70 mA	4	- 1	-- do --
12	30.0 mA	27.0 mA	4	+ 1	-- do --
13	300.0 mA	270.0 mA	4	+ 1	-- do --
14	3.00 A	2.70 A	4	+ 2	-- do --
15	16.0 A	14.4 A	4	0	-- do --
	<b>AC Current (at 50 Hz)</b>				
16	30.0 mA	27.0 mA	6	0	-- do --
17	300.0 mA	270.0 mA	6	0	-- do --
18	16.0 A	14.4 A	6	0	-- do --
	<b>Resistance</b>				
19	30.0 ohm	27.0 ohm	4	- 1	-- do --
20	300.0 ohm	270.0 ohm	4	0	-- do --
21	3.0 kohm	2.70 k ohm	4	+ 1	-- do --
22	30.0 kohm	27.0 k ohm	3	+ 1	-- do --
23	300.0 kohm	270.0 k ohm	3	0	-- do --
24	3.00 Mohm	2.7 Mohm	3	+ 1	-- do --
25	30.0 Mohm	27.0 Mohm	3	- 3	-- do --
	<b>Temperature</b>				
26	-200 to +200 C	- 180 C	4	0	-- do --
27		+ 180 C	4	- 1	-- do --
28	+200 to +850 C	+ 400 C	4	0	-- do --
29		+ 600 C	4	- 3	-- do --



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2.0 Test Results

2.3 SHOCK TEST :

2.3.1 Pre shock intrinsic error measurement :

Sr. No	Parameter / Range	Input to UUT	Max. allowed error in +/- digits	Error Observed in digits	Remark
<b>DC Voltage /</b>					
1	30.0 mV	30.0 mV	18	- 12	Complied
2	300.0 mV	300.0 mV	18	- 2	-- do --
3	3.0 V	3.0 V	9	- 2	-- do --
4	30.0 V	30.0 V	9	- 3	-- do --
5	300.0 V	300.0 V	9	- 4	-- do --
6	1000 V	1000 V	5	- 1	-- do --
<b>AC Voltage (at 50 Hz)</b>					
7	3.0 V	3.0 V	25	- 3	-- do --
8	30.0 V	30.0 V	25	- 3	-- do --
9	300.0 V	300.0 V	25	- 5	-- do --
10	1000 V	1000 V	10	- 1	-- do --
<b>DC Current</b>					
11	3.00 mA	3.0 mA	35	- 4	-- do --
12	30.0 mA	30.0 mA	10	- 4	-- do --
13	300.0 mA	300.0 mA	32	+ 4	-- do --
14	3.00 A	3.0 A	35	- 5	-- do --
15	16.0 A	16.0 A	18	+ 4	-- do --
<b>AC Current (at 50 Hz)</b>					
16	30.0 mA	30.0 mA	47	- 6	-- do --
17	300.0 mA	300.0 mA	47	+ 3	-- do --
18	16.0 A	16.0 A	26	+ 5	-- do --
<b>Resistance</b>					
19	30.0 ohm	30.0 ohm	18	+ 9	-- do --
20	300.0 ohm	300.0 ohm	18	- 1	-- do --
21	3.0 kohm	3.0 kohm	13	0	-- do --
22	30.0 kohm	30.0 kohm	13	- 1	-- do --
23	300.0 kohm	300.0 kohm	13	- 3	-- do --
24	3.00 Mohm	3.00 Mohm	19	- 10	-- do --
25	30.0 Mohm	30.0 Mohm	61	- 21	-- do --
<b>Temperature</b>					
26	-200 to +850 C	- 200 C	25	0	-- do --
27		+ 850 C	90	+ 1	-- do --





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2.0 Test results :

2.3.2 Shock Test :

Sr. No	Parameter / Range	Test Condition	Requirement	Observations	Remark
1	Shock Test	11 ms / 15 g, half sine, 3 shocks per axis (Total 18 shocks) as per Is 9000 (P-7/ sec-1)	There shall not be any mechanical damage. UUT shall function after this test.	No mechanical damage was observed.	Pl. Refer results at 2.3.3

2.3.3 Post shock Intrinsic error Measurement :

Sr. No	Parameter / Range	Input to UUT	Max. allowed error in +/- digits	Error Observed in digits	Remark
<b>DC Voltage /</b>					
1	30.0 mV	30.0 mV	18	- 8	Complied
2	300.0 mV	300.0 mV	18	- 1	-- do --
3	3.0 V	3.0 V	9	- 2	-- do --
4	30.0 V	30.0 V	9	- 2	-- do --
5	300.0 V	300.0 V	9	- 3	-- do --
6	1000 V	1000 V	5	- 1	-- do --
<b>AC Voltage (at 50 Hz)</b>					
7	3.0 V	3.0 V	25	- 2	-- do --
8	30.0 V	30.0 V	25	- 2	-- do --
9	300.0 V	300.0 V	25	- 4	-- do --
10	1000 V	1000 V	10	- 1	-- do --
<b>DC Current</b>					
11	3.00 mA	3.0 mA	35	- 3	-- do --
12	30.0 mA	30.0 mA	10	- 3	-- do --
13	300.0 mA	300.0 mA	32	+ 2	-- do --
14	3.00 A	3.0 A	35	- 6	-- do --
15	16.0 A	16.0 A	18	+ 4	-- do --
<b>AC Current (at 50 Hz)</b>					
16	30.0 mA	30.0 mA	47	- 5	-- do --
17	300.0 mA	300.0 mA	47	+ 2	-- do --
18	16.0 A	16.0 A	26	+ 4	-- do --
<b>Resistance</b>					
19	30.0 ohm	30.0 ohm	18	+ 8	-- do --
20	300.0 ohm	300.0 ohm	18	- 1	-- do --
21	3.0 kohm	3.0 kohm	13	0	-- do --
22	30.0 kohm	30.0 kohm	13	- 2	-- do --
23	300.0 kohm	300.0 kohm	13	- 2	-- do --
24	3.00 Mohm	3.00 Mohm	19	- 10	-- do --
25	30.0 Mohm	30.0 Mohm	61	- 19	-- do --
<b>Temperature</b>					
26	-200 to +850 C	- 200 C	25	0	-- do --
27		+ 850 C	90	0	-- do --

Released By

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2.0 Test Results :

2.4 VIBRATION TEST :

2.4.1 Pre Vibration Intrinsic error Measurement :

Sr. No	Parameter / Range	Test Condition	Variation Requirement	Variation Observed	Remark
	DC Voltage /		Shall be within		
1	30.0 mV	30.0 mV	18	- 8	Complied
2	300.0 mV	300.0 mV	18	- 1	-- do --
3	3.0 V	3.0 V	9	- 2	-- do --
4	30.0 V	30.0 V	9	- 2	-- do --
5	300.0 V	300.0 V	9	- 3	-- do --
6	1000 V	1000 V	5	- 1	-- do --
	AC Voltage (at 50 Hz)				
7	3.0 V	3.0 V	25	- 2	-- do --
8	30.0 V	30.0 V	25	- 2	-- do --
9	300.0 V	300.0 V	25	- 4	-- do --
10	1000 V	1000 V	10	- 1	-- do --
	DC Current				
11	3.00 mA	3.00 mA	35	- 3	-- do --
12	30.0 mA	30.0 mA	10	- 3	-- do --
13	300.0 mA	300.0 mA	32	+ 2	-- do --
14	3.00 A	3.00 A	35	- 6	-- do --
15	16.0 A	16.0 A	18	+ 4	-- do --
	AC Current (at 50 Hz)				
16	30.0 mA	30.0 mA	47	- 5	-- do --
17	300.0 mA	300.0 mA	47	+ 2	-- do --
18	16.0 A	16.0 A	26	+ 4	-- do --
	Resistance				
19	30.0 ohm	30.0 ohm	18	+ 8	-- do --
20	300.0 ohm	300.0 ohm	18	- 1	-- do --
21	3.0 kohm	3.0 kohm	13	0	-- do --
22	30.0 kohm	30.0 kohm	13	- 2	-- do --
23	300.0 kohm	300.0 kohm	13	- 2	-- do --
24	3.00 Mohm	3.00 Mohm	19	- 10	-- do --
25	30.0 Mohm	30.0 Mohm	61	- 19	-- do --
	Temperature				
26	-200 to +200 C	- 200 C	25	0	-- do --
27		+ 850 C	90	0	-- do --



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2.0 Test results :

2.4.2 Vibration Test :

Sr. No	Parameter / Range	Test Condition	Requirement	Observations	Remark
1	Vibration Test	0.15 mm amplitude, 10 - 55 -10 Hz, 1 octave / min., 3 axes as per IS 9000 (P-8 )	There shall not be any mechanical damage. UUT shall function after this test.	No mechanical damage was observed.	Pl. Refer results at 2.4.3

2.4.3 Post Vibration Intrinsic error Measurement :

Sr. No	Parameter / Range	Test Condition	Max. allowed error in +/- digits	Error Observed in digits	Remark
	DC Voltage /		Shall be within		
1	30.0 mV	30.0 mV	18	- 11	Complied
2	300.0 mV	300.0 mV	18	- 2	-- do --
3	3.0 V	3.0 V	9	- 2	-- do --
4	30.0 V	30.0 V	9	- 3	-- do --
5	300.0 V	300.0 V	9	- 4	-- do --
6	1000 V	1000 V	5	- 1	-- do --
	AC Voltage (at 50 Hz)				
7	3.0 V	3.0 V	25	- 4	-- do --
8	30.0 V	30.0 V	25	- 3	-- do --
9	300.0 V	300.0 V	25	- 5	-- do --
10	1000 V	1000 V	10	- 1	-- do --
	DC Current				
11	3.00 mA	3.00 mA	35	- 4	-- do --
12	30.0 mA	30.0 mA	10	- 4	-- do --
13	300.0 mA	300.0 mA	32	+ 4	-- do --
14	3.00 A	3.00 A	35	- 5	-- do --
15	16.0 A	16.0 A	18	+ 5	-- do --
	AC Current (at 50 Hz)				
16	30.0 mA	30.0 mA	47	- 6	-- do --
17	300.0 mA	300.0 mA	47	+ 2	-- do --
18	16.0 A	16.0 A	26	+ 6	-- do --
	Resistance				
19	30.0 ohm	30.0 ohm	18	+ 9	-- do --
20	300.0 ohm	300.0 ohm	18	- 1	-- do --
21	3.0 kohm	3.0 kohm	13	0	-- do --
22	30.0 kohm	30.0 kohm	13	- 1	-- do --
23	300.0 kohm	300.0 kohm	13	- 3	-- do --
24	3.00 Mohm	3.00 Mohm	19	- 10	-- do --
25	30.0 Mohm	30.0 Mohm	61	- 15	-- do --
	Temperature				
26	-200 to +200 C	- 200 C	25	- 1	-- do --
27		+ 850 C	90	- 1	-- do --



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**3.0 General Remarks :**

- 3.1 No comments regarding compliance / non-compliance could be offered, since the manual supplied did not contain any tolerances for the concerned influence quantity.
- 3.2 The UUT indicated low battery condition at 6.9 V supply.
- 3.3 Intrinsic errors indicated by the manufacturer in their manual were converted to digits as per the formulae laid down in IS 13875, vide cl. No.4.2.2
- 3.4 Manual supplied by manufacturer was referred to as data sheet wherever required for the execution of the tests. However, the manual did not bear any document no.

**APPROVED BY**

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