TEST REPORT

ELECTRONICS TEST & DEVELOPMENT CENTRE

STQC Directorate
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ELECTRONICS TEST & DEVELOPMENT CENTRE, CHENNAI

STQC DIRECTORATE, DEPARTMENT OF INFORMATION TECHNOLOGY

GOVERNMENT OF INDIA

REPORT NO: ETDC (CN)/2011/41596	PAGE 1 OF 3
TEST on FIRE ALARM PANEL	DATE OF ISSUE: 14.12.2011

TEST REPORT

1.1	Service Request No.	I6509 / 2011-12		
1.2	Name and address of customer	M/s. RAVEL ELECTRONICS PVT LTD 150-A, ELECTRONICS INDUSTRIAL ESTATE PERUNGUDI, CHENNAI-600 096		
1.3	Description & Identification of Test Sample(s)	Nomenclature:	Fire Alarm Panel	
		Make:	RAVEL	
		Model:	RE 104	
		Sl.No:	23449	
1.4	Sample(s)	Received Date: 09.11.2011		Test Completed Date: 13.12.2011
1.5	Testing performed at	Centre		
1.6	No. of sample(s) tested	One		
1.7	Standard/Test Procedure	As per customer specification		
	Scope	1. Dry Heat Test, 2. Damp Heat (Steady State)Test, 2. Cold Test, 4.Vibration Test & 5. Functional Test		

1.8 Major Equipment used and trace ability Details

Sl. No.	Equipment Used	Uncertainty (Best Case)	Calibration Reference/ Report Agency	Valid up to
1	Climatic Chamber, WTWk1	± 1°C, ±3%RH	ETDC (B) C –42790/2	30.03.2012
2	Vibration Test System, SD	± 2.5%	YN/1584/2011-12	29.09.2012

The measurement carried out using the above equipment, are traceable to National standards

A. Immanuel
Tested by
(A.I.Devadoss)

OIC/Lab
(R.Kamatchi)

ETDC ★ DIT
14 DEC 2011
GOVT. OF INDIA - CHENNAI

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2.0 TEST RESULTS: LABORATORY AMBIENT Temperature: UC R.Humidity: UC

Sl. No.	Cl. No.	Specification/Requirement		Results	Remarks
2.1	---	**Dry Heat Test** Temperature:50°C Rate of Rise: <1°C/min Dwell Time: 16 hrs Condition: Power 'On'	There shall be no physical damages	Visually examined and found no physical damages.	P
2.1.1	---	**Functional Test** After Dry Heat test	By Breaking " Incase of fire Break Glass(MCP) sounder output(LED) shall 'On'	Sounder output (LED) is 'On' when breaking MCP	P
2.2	---	Damp Heat (Steady State) Test Temperature:45°C Relative Humidity: 95% R.H Dwell Time: 16 hrs Condition: Power 'On'	There shall be no physical damages	Visually examined and found no physical damages.	P
2.2.1	---	**Functional Test** After Damp Heat (Steady State) test	By Breaking " Incase of fire Break Glass(MCP) sounder output(LED) shall 'On'	Sounder output (LED) is 'On' when breaking MCP	P

P→ Passed (Meets requirement)
F→ Failed (Does not meet requirement)
NA→ Limits of performance Not Applicable
UC→ Uncontrolled

A. Devadoss
Tested by
(A.I.Devadoss)

R. Kamatchi
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Sl. No.	Cl. No.	Specification/Requirement		Results	Remarks
2.3	---	**Cold Test** Temperature: 0°C Rate of fall: <1°C/min Dwell Time: 16 hrs Recovery period: 3hrs Condition: Power 'On'	There shall be no physical damages	Visually examined and found no physical damages.	P
2.3.1	---	**Functional Test** After Cold test	By Breaking " Incase of fire Break Glass(MCP) sounder output(LED) shall 'On'	Sounder output (LED) is 'On' when breaking MCP	P
2.4	--	**Sinusoidal Vibration Test** Frequency Range: 10 to 50 Hz in steps of 5Hz Amplitude:1 mm No. of axis: 1(Vertical only) Duration: 5 minutes @ each frequency and 1 hr @ 50Hz Total duration: 1hr 40minutes Condition: Power 'On'	There shall be no physical damages	Visually examined and found no physical damages.	P
2.4.1	---	**Functional Test** After Vibration Test	By Breaking " Incase of fire Break Glass(MCP) sounder output(LED) shall 'On'	Sounder output (LED) is 'On' when breaking MCP	P

Issued by
(Authorised signatory)

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F→ Failed (Does not meet requirement)
NA→ Limits of performance Not Applicable
UC→ Uncontrolled

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