SAHYADRI®

ISO 9001:2015 Certified

SAHYADRI ELECTRO CONTROLS (I) PVT. LTD.

SECO

ELECTROMECHANICAL ANNUNCIATOR TYPE TEST REPORTS (EM101 SERIES)

10, VINAY COMPLEX, 1ST CROSS, RAJGOPAL NAGAR MAIN ROAD, GANAPATHI NAGAR, PEENYA III PHASE, BANGALORE – INDIA - 560058

Mail: mkt@secoindia.com & sales@secoindia.com, Web: www.secoindia.com

ELECTRONICS TEST & DEVELOPMENT CENTRE
STQC Directorate, Ministry of Information Technology, Government of India,
Ring road, Peenya Industrial Estate, Bangalore – 560 058.
Tel.: (080) 28394252, 28394647, 28395992, Fax: (080) 28391804
Email: mailetdc29@yahoo.com

TEST REPORT

Job Card No.: TR/ETL/62247

I. SCOPE:

1.	SERVICE REQUEST NUMBER	62247
2.	Test requested by (Name of Organisation)	M/s. **SAHYADRI ELECTRO CONTROLS (INDIA) PVT LTD** #10,Vinay Complex,1st Cross, Rajagopalnagar main Road, Ganapathinagar, Peenya III phase,Bangalore-560058
3.	Test Carried out at	M/s. ETDC, Bengaluru
4.	Description of the Equipment	
	a) Nomenclature	35 WINDOWS ELECTROMECHANICAL ANNUCIATOR WITH STAND BY DCF AND EVENT LOGGER.
	b) Manufactured by	M/s. **SAHYADRI ELECTRO CONTROLS (INDIA) PVT LTD**
	c) Model No / Type No	EM101/310355811.
	d) No. of samples submitted	01
	e) Serial No.	13-0023
5.	Date of submission of samples	16/04/2013.
6.	Condition of items on receipt	Functional
7.	Date of completion of tests	22/04/2013
8.	Applicable Test Specification	Customer specification.
9.	Test Category	Performance Test
10.	Env. Condition during measurements	Temperature : 23-27 °C RH: 35-70% And as specified for environmental tests if any.

II MAJOR EQUIPMENT USED:

Sl. No	Nomenclature	Make	Model	Cal. Due
1.	Multimeter	Agilent	34401A	Dec 2013
2.	Break Down Tester	BPL - India	RM 215G	Jun 2013
3.	Power Supply	APLAB	Used as Source	

2.0 Test Details & Test Results:

Sl. No.	Test Parameter/ Procedure/	Requirements	Test results/ Observations/ Remarks
1	**FUNCTIONAL** **Energise the unit by giving 110V DC supply & 230V AC supply.**		
1.1	**Lamp Test:** a) Lamp test:- Press & release the Push Button P1	a) All 35 windows are starts flashing (On-Off) continuously b) Trip Alarm contacts & Non Trip Alarm Contacts are change from open to close - check this by using continuity meter	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	b) Accept : Press & release the Push Button P2	a) All 35 windows are become steady (continuously glowing - no flashing) b) Trip Alarm contacts & Non Trip Alarm Contacts are change from close to open - check this by using continuity meter	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	c) Reset: Press & release the Push Button	a) All 35 windows are goes off	***Checked and found satisfactory.***
1.2	**INTIATION TEST:** a) Connect & release a wire between the terminal C & F1	a) Window no 1 starts flashing b) Trip Alarm contact change from Open to close	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	b) Accept the window by press the PB P2.	a) Window no 1 become study b) Trip Alarm contact change from close to open	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	c) Connect & release a wire between the terminal C & F4	a) Window no 4 starts flashing b) Trip Alarm contact change from Open to close	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	d) Accept the window by press the PB P2.	a) Window no 4 become study b) Trip Alarm contact change from close to open	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	e) Connect & release a wire between the terminal C & F12.	a) Window no 12 starts flashing b) Trip Alarm contact change from Open to close	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	f) Accept the window by press the PB P2	a) Window no 12 become study b) Trip Alarm contact change from close to open	***Checked and found satisfactory.*** ***Checked and found satisfactory.***

Tested By:.....

GOVERNMENT OF INDIA
ELECTRONICS TEST & DEVELOPMENT CENTRE
BANGALORE - 560 093
DEPTT OF INFORMATION TECH, S.T.Q.C. DIRECTORATE

Approved By:.....

2.0 Test Details & Test Results:

Sl. No.	Test Parameter/ Procedure/	Requirements	Test results/ Observations/ Remarks
	g) Reset the window by press the PB P3	a) All Windows goes off	***Checked and found satisfactory.***
	WINDOW CONTACT TEST/SCADA CONTACT TEST		
	a) Connect a wire between the terminal C & F3	a) Window no 1 starts flashing b) contacts between EC & E3 Closes	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	a) Connect a wire between the terminal C & F8	a) Window no 1 starts flashing b) contacts between EC & E8 Closes	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	a) Connect a wire between the terminal C & F24	a) Window no 1 starts flashing b) contacts between EC & E24 Closes	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	DC SUPPLY FAILURE		
	a) Switch off the DC supply, and only AC supply present	a) DC failure window no. 10 starts flashing b) Contact AD1 & AD2 closes (open to close)	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	b) Accept the window by press the PB P2	a) DC failure window no. 10 become steady b) Contact AD1 & AD2 opens (close to open)	***Checked and found satisfactory.*** ***Checked and found satisfactory.***
	c) Switch on the DC supply,	a) DC failure window no. 10 goes off	***Checked and found satisfactory.***
	BURDEN TEST a) switch on the 110v Dc supply & measure the DC current i) when all windows are at steady condition(Accepted)	< 30 Watts	***14.3 Watts.***
	DI ELECTRIC TEST (HIGH VOLTAGE BREAK DOWN TEST)		
	a) Connect all the terminal b) Apply 2KV RMS 50 Hz between all terminal short & earth terminal for 1 minute	No flashing or trip should be observed	***With stood and No Flashing / Trip Observed. Complies.***
	c) Apply 1 KV RMS 50 Hz between open contact - trip contact	No flashing or trip should be observed	***With stood and No Flashing / Trip Observed. Complies.***
	c) Apply 1 KV RMS 50 Hz between open contact - Non trip contact	No flashing or trip should be observed	***With stood and No Flashing / Trip Observed. Complies.***

Tested By:.....

GOVERNMENT OF INDIA
ELECTRONICS TEST & DEVELOPMENT CENTRE
BANGALORE - 560 058
DEPTT OF INFORMATION TECH, S.T.Q.C. DIRECTORATE

Approved By:.....

2.0 Test Details & Test Results:

Sl. No.	Test Parameter/ Procedure/	Requirements	Test results/ Observations/ Remarks
4.	**AUX. SUPPLY VARAITION TEST**		
	a) Apply 75V DC Lamp Test	All windows are glowing	***Checked and found satisfactory.***
	b)Apply 275V DC Lamp test	All windows are glowing	***Checked and found satisfactory.***

Tested By:.....

Approved By:..... 23/04/2013

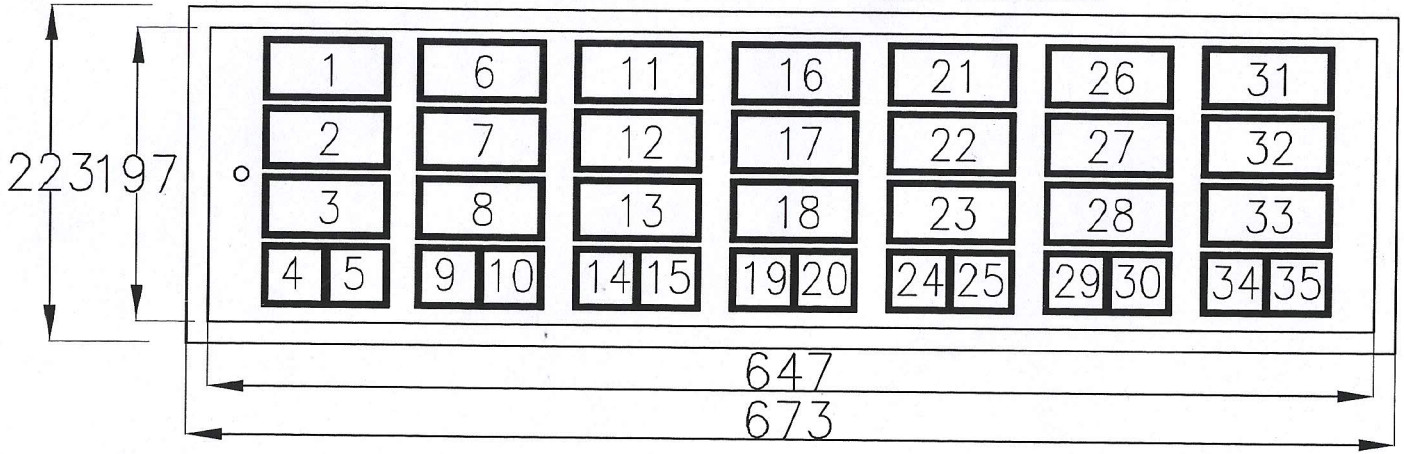
Issued By:..... 23/4/2013

GOVERNMENT OF INDIA
ELECTRONICS TEST & DEVELOPMENT CENTRE
BANGALORE - 560 058
DEPT. OF INFORMATION TECH. S.T.Q.C. DIRECTORATE

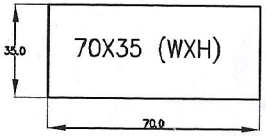
K. Swarupa
Scientist 'E'
Electronics Test & Development Centre,
Government of India,
STQC Directorate,
Department of Electronics & Information Technology
100 Feet Road, Peenya Industrial Estate,
Bangalore - 560 058.

CO-ORDINATOR
TESTING SERVICES,
E.T.D.C., BANGALORE

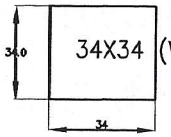
WINDOWS NUMBERING & BEZZEL DIMENSIONS

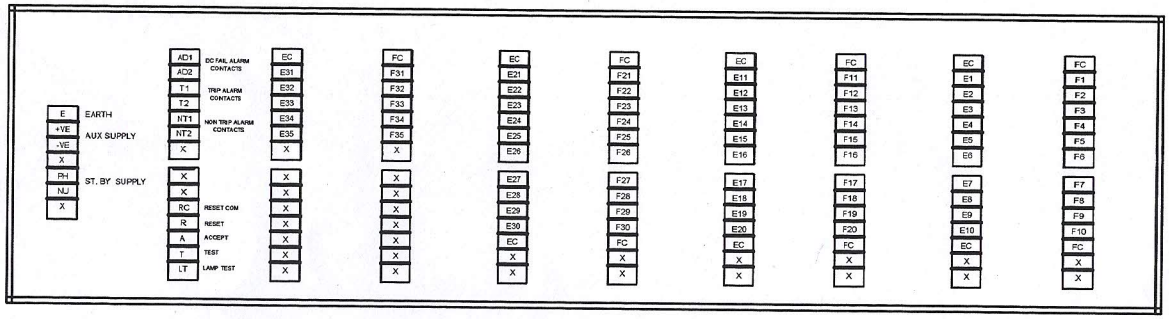


WINDOW DIMENSION



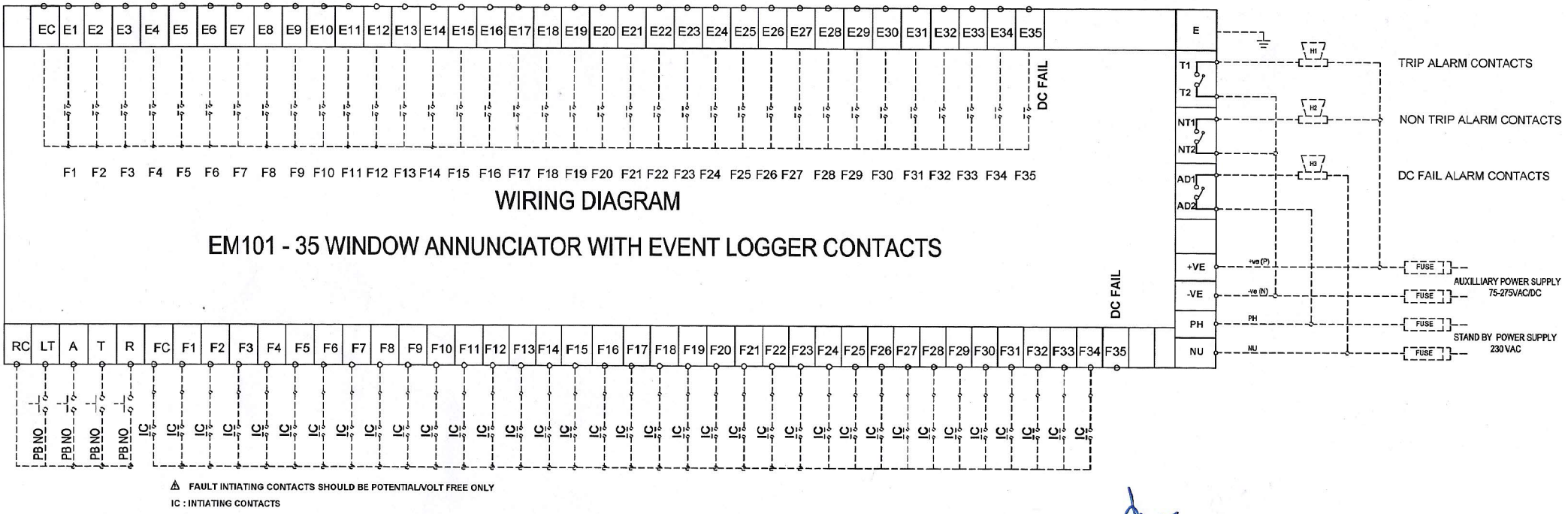
WINDOW DIMENSION





K. Swarupa
Scientist 'E'
Electronics Test & Development Centre,
Government of India,
STQC Directorate,
Department of Electronics & Information Technology
100 Feet Road, Peenya Industrial Estate,
Bangalore - 560 058.

DRAWN BY	HSV	REV. NO.	00	ISSUED ON	05.04.13		DRAWING TITLE: TERMINAL AND WIRING DIAGRAM OF 35 WINDOW ELECTROMECHANICAL TYPE ANNUNCIATOR WITH DCFAIL AND EVENT LOGGER CONTACTS	DRG.NO. SECO/AD/310355811	SH.NO	01	SECO
APPD. BY	BSM			DRAWN ON	05.04.13				CONTD.	02	



WIRING DIAGRAM

EM101 - 35 WINDOW ANNUNCIATOR WITH EVENT LOGGER CONTACTS

⚠ FAULT INTIATING CONTACTS SHOULD BE POTENTIAL/VOLT FREE ONLY

IC : INTIATING CONTACTS

K. Swarupa
Scientist 'E'
Electronics Test & Development Centre,
Government of India,
STQC Directorate,
Department of Electronics & Information Technology
100 Feet Road, Peenya Industrial Estate,
Bangalore 560 058.

DRAWN BY	HSV	REV. NO.	00	ISSUED ON	05.04.13	DRAWING TITLE: TERMINAL AND WIRING DIAGRAM OF 35 WINDOW ELECTROMECHANICAL TYPE ANNUNCIATOR WITH DCFAIL AND EVENT LOGGER CONTACTS	DRG NO. SECO/AD/310355811	SH.NO	02	SECO
APPD. BY	BSM			DRAWN ON	05.04.13			CONTD.	-	