

SAHYADRI ELECTRO CONTROLS (I) PVT. LTD.


SECO



ANNUNCIATOR – GSM Based (SAN200/ GSM1)

10, VINAY COMPLEX, 1ST CROSS, RAJGOPAL NAGAR MAIN ROAD, GANAPATHI NAGAR,
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SAHYADRI (SECO) make **GSM Based Annunciator - SAN 200 series** is designed with Microcontroller based advance technology used to send the messages along with window Annunciation when the fault occurs (Trip) in the system or in the process. It is the high integration of digital trip inputs converting to messages by using GSM modem. Short messages will be sent to the pre specified mobile numbers with Station name, feeder no., window no., description, unit Sl no. and Date & Time of Trip/ Close. It is more useful in the process industries at hazardous area where more attention is required.

In this system, maximum of 5 mobile numbers can be configured and configuration of mobile nos. is as per desired format. When the fault occurs, respective window glows & also sends the message to users. Message contains - full details of Station name, window details with Date & time.

FEATURES

- Microcontroller based design
 - Regular window Annunciation with built in GSM modem
 - Up to 5 receivers (phone no.) can be assigned for each message
 - System checking alert messages – Test function
 - Message will be received on every event (fault)
 - Multiple devices operation
 - User friendly design
 - ABS plastic enclosure
 - Ultra-High bright LEDs for window
 - Wide range of Aux. supply
 - Optically isolated fault inputs
 - Stock proof shrouded terminals
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TECHNICAL SPECIFICATION:-

- **Input Power supply:** a) 75 to 275V DC/AC b) 20 to 150V DC c) 10 to 18V DC
- **Windows Available:** 8, 12, 16, 20, 24
- **Display:** Ultra High bright LED
- **Power consumption:** <1W per window
- **Window sizes:** 34 x 74 mm or 34 x 37 mm
- **Window colour:** RED, Yellow (site selectable)
- **Window Flash rate:** 100 flashes per minute
- **Window Legend (Inscription):** Tracing sheet print or Photo negative
- **Input interrogation Voltage:** 24V DC (from the unit) – No external voltage required
- **Input Isolation:** Opto isolated (2 kv) (from internal circuits)
- **Inputs:** Potential Free Normally open contacts
- **Response Time:** < 20 mSec maximum
- **Push buttons:** Inbuilt push buttons for Test, Mute, Accept & Reset
and also terminals provided for external PB's
- **Output contact:** 5A @30V DC or 5A @230AC resistive
- **Window specific relays:** One NO contact per window provided for SCADA
- **Inbuilt Hooter:** One or two in-built Hooters are available on request
- **Operating Sequence:** NORMAL
- **Operating Temperature:** 0 to +60 degree
- **Sound Output:** 90 dB
- **Enclosure:** FR Grade ABS plastic
- **Protection:** Front: IP54 , Back: IP20

SEQUENCE OF OPERATION – WORKING MODE

CONDITION	MANUAL ACTION	WINDOW STATUS	ALARM CONTACT STATUS
NORMAL		OFF	OPEN
ABNORMAL		FLASHING	CLOSED
	ACCEPT	STEADY ON	OPEN
ABNORMAL	RESET	FLASHING	CLOSED
NORMAL BEFORE RESET	RESET	OFF	OPEN
NORMAL	TEST	FLASHING	CLOSED

GSM ANNUNCIATOR – CONFIGURATION PROCEDURE

➤The following procedure describes the format of annunciator data updating through message.

1.MOBILE NUMBER CONFIGURATION:-

Format:**ADD_NUMS +91(10 DIGIT MOBILE NUMBER)**

(Note: up to 5 numbers can be stored. If 6th mobile no. is added, it will replace 1st no., 7th no. will replace 2nd no. and so on. Mobile number addition confirmation message will be received by the newly added number)

2.DELETE SPECIFIC MOBILE NUMBER:-

Format:**DELETE +91(10 DIGIT MOBILE NUMBER)**

(Note: If it is sent by same number, then that number gets deleted but confirmation message will not be received)

3.TO GET THE STORED MOBILE NUMBERS IN ANNUNCIATOR:-

Format:**GET_MOB_NUMS**

4.TO UPDATE NAME:-

Format:**ADD_NAME :(ENTER THE NAME OF PLACE/COMPANY/DEVICE)**

(Note: Enter maximum 34 character/number/special character except :)

5.TO UPDATE REFERENCE NAME:-

Format:**ADD_REFF :(ENTER THE REFERENCE NAME)**

(Note: Enter window name maximum 18 character/number/special character except:)

6.TO UPDATE UNIT SERIAL NUMBER:-

Format:**ADD_UNIT_SL_NUMS:(ENTER SERIAL NUMBER OF THE DEVICE)**

(Note: Enter maximum 10 character/number/special character except :)

7.TO UPDATE WINDOW NAME:-

Format: **ADD_WINDOW_NAME #W(WINDOW NUMBER):(NAME OF THE WINDOW)**

EXAMPLE:-ADD_WINDOW_NAME #W2:OVER CURRENT TRIP

(Note: Enter window name– maximum of 24 character/number/special character except # and :)

8.TO KNOW SIM NETWORK:-

Format:**GET_NW_INFO**

(Note: Can check any SIM network name)

9.TO KNOW SIM VALIDITY AND BALANCE:-

Format:**GET_SIM_INFO**

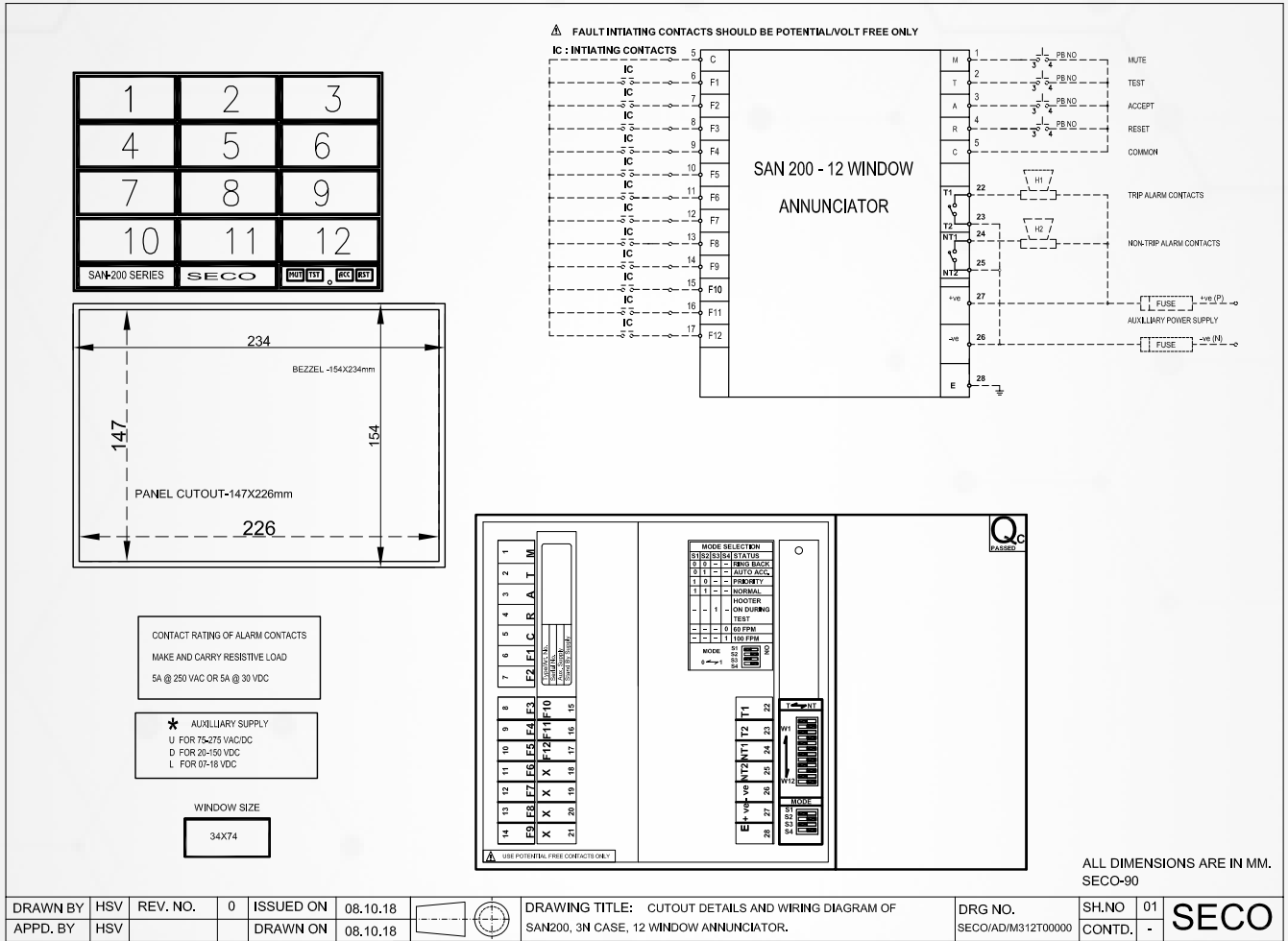
(Note: It is possible only to check **PREPAID SIM CARD OF AIRTEL, BSNL, IDEA and VODAFONE**)

10.TO KNOW SIM SMS BALANCE AND VALIDITY:-

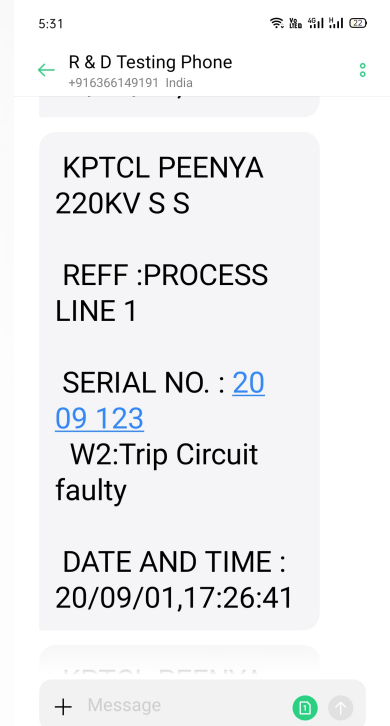
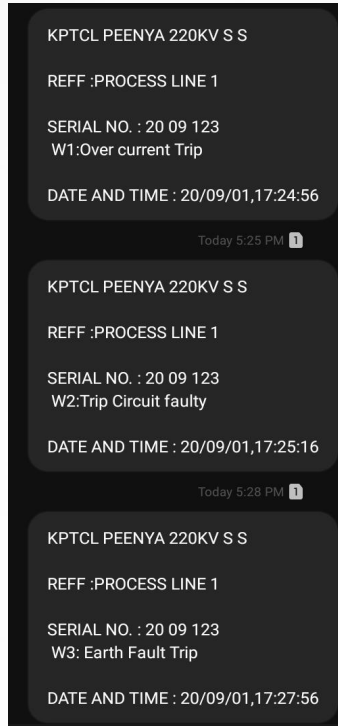
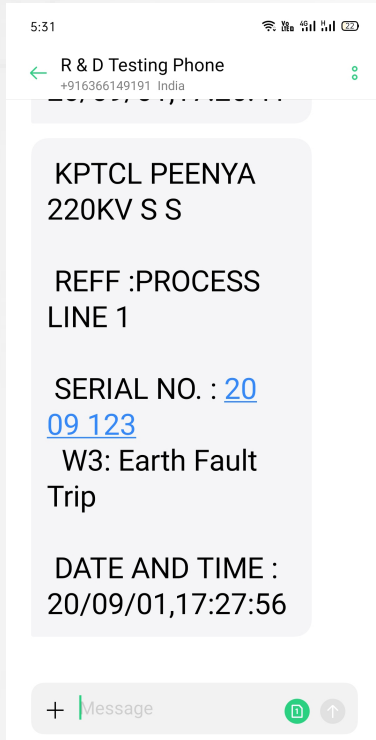
Format:**GET_SMS_BAL**

(Note: It is possible only to check **PREPAID SIM CARD OF AIRTEL, BSNL, IDEA and VODAFONE**)

WIRING AND PANEL CUTOUT DRAWING



SAMPLE MESSAGES



SAHYADRI®

ISO 9001:2015 Certified



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