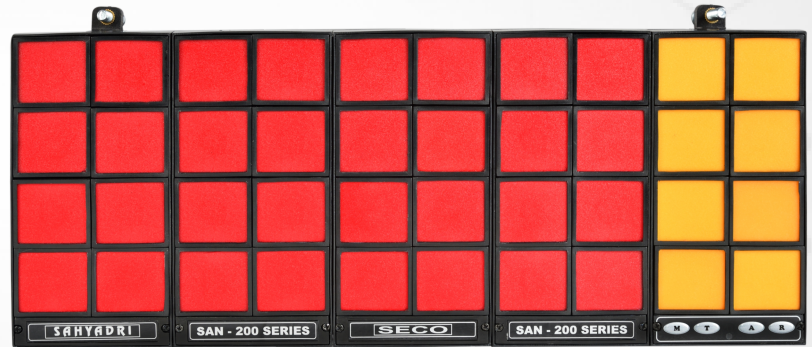


SAHYADRI ELECTRO CONTROLS (I) PVT. LTD.

SECO



Control Unit




Window Facia



ALARM ANNUNCIATOR – SPLIT TYPE – 100 WINDOWS (TYPE: SAN 200)


10, VINAY COMPLEX, 1ST CROSS, RAJGOPAL NAGAR MAIN ROAD, GANAPATHI NAGAR,
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SAHYADRI (SECO) make **Split type Annunciator - SAN 200 series** is designed with Microcontroller based advance technology and field proven model for all types of fields and environmental conditions. This model is type tested for all EMI, EMC tests (as per IEC), Temperature rise and Cold test at a NABL accredited Govt. Lab. Annunciator is approved and used in all Power Grids, Electricity Boards and OEM's in India. This type of split type is useful in Generation power stations and Thermal power plants where only Facia is required at control room and control unit is at remote place.

FEATURES:-

- Advanced high speed Single Chip Microcontroller with reliability and accuracy
 - Available in 50 & 100 window units
 - Front facia window in small, Big windows and combination of both
 - Low power consumption
 - Long life super bright SMD LED used
 - With multi-colour selection
 - Wide range AC/ DC Aux. supply
 - Standby power supply
 - DC supervision & fail Indication with Alarm contacts
 - AC fail Indication with Alarm contacts
 - Contacts for external Alarms
 - RS 485 communication
 - Opto isolated inputs
 - Field selectable window colour
 - Field selectable Trip & Non trip
 - Field selectable NO/NC inputs
 - Provision for External Push buttons for Test, Mute, Accept & Reset
 - Potential free input contacts
 - Two sets of potential free normally open contacts for Audible Alarms (T & NT)
 - Watch dog LED with Flashing
 - Shock proof shrouded terminals
 - Termination connectors are male & female type (easily detachable)
- 

TECHNICAL SPECIFICATIONS:-

- **Windows available:** 50 window and 100 window unit
- **Aux. supply:** 1) 20 to 150V DC 2) 75 to 275V AC/DC
- **Facia Window illumination:** Ultra high bright SMD LED
- **Window Colour:** All Red, Red/ Yellow, Red/ White – site selectable (other colours are optional)
- **Window size:** 34 (H) x 37(W) mm and 34 (H) x 74 (W) mm – combination of both sizes
- **Window Flash rate:** 100 flashes per minute
- **Window Legend (Inscription):** Tracing sheet print or Photo negative
- **Power consumption:** 0.8W per window
- **Field input:** Potential free protective relay Normally open contact (with potential is optional)
- **Input interrogation Voltage:** -24V DC (from the unit) – No external voltage required
- **Input Field contacts:** Normally open contact (site selectable NO/NC selection is optional)
- **Input Isolation:** Opto isolated (2 kv) (from internal circuits)
- **Response Time:** 20 mSec (other response time upon request)
- **Sequence of operation:** Normal Mode
- **Output Contact:** 1 NO contact for Trip Alarm, 1 NO contact for Non Trip Alarm, 1 NO contact for DC fail alarm & 1 NO contact for AC Fail (Optional feature)
- **Output contact Rating:** 10A@30V DC/ 230V AC resistive load (make & carry)
- **Push buttons:** terminals provided for external PB's for Test, Accept & Reset
- **Enclosure:** Fabricated Box

ADDITIONAL FEATURES / OPTIONAL FEATURES

- **Standby power supply:** 230V AC - 45 to 55 Hz (it can withstand and work up to 75 to 350V AC)
- **DC Fail Indication:** Last window flashing with 1 NO potential free contact for Alarm (Any specific window no. is upon request)
- **AC Fail Indication:** Last but one window Flashing with Non trip contact for Alarm (separate contact for Alarm is upon request)
- **Built in Event Logger contact:** 1 NO Potential free contact per window will be given for SCADA application
- **Built in serial Communication:** RS232/ 485 (with Modbus RTU is optional)

Sequence of operation – Working Mode

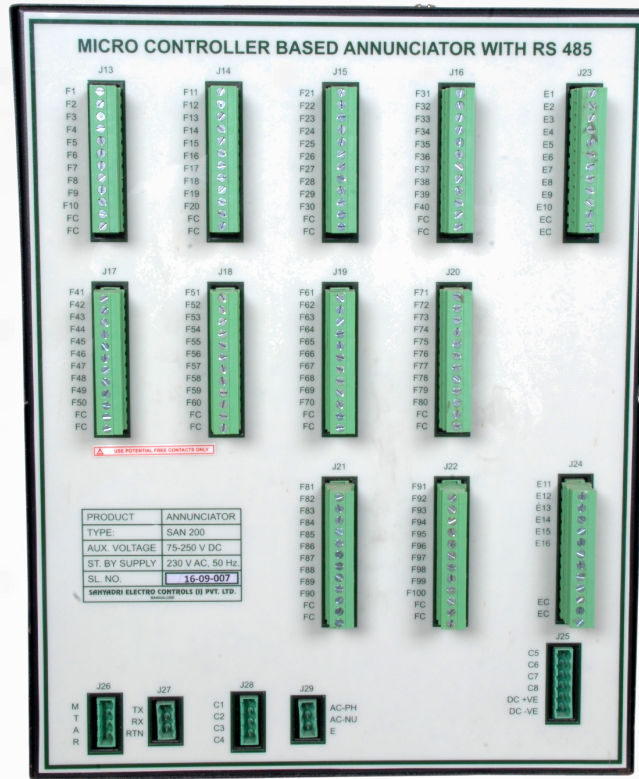
MANUAL/ NORMAL MODE:-

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

Standard Compliances:-

- Initiation Test: As per Manufacturer spec.
- Burden Test: As per Manufacturer spec.
- Dielectric Test: As per IS 3231
- Aux. supply Variation Test: As per Manufacturer Spec.
- Electromagnetic radiation disturbance measurement test: AS per CISPR11: 2010 Class A
- Electrostatic discharge Immunity: As per IEC 61000 -4-2-2008
- Electrical fast transient / burst immunity: As per IEC 61000-4-4-2012
- Surge immunity: As per IEC-61000-4-5-2-14 Conducted Disturbances induced by RF Fields: IEC 61000-4-6-2013
- Voltage Dips: As per IEC 61000-4-11-2004
- Impulse Test: As per manufacturer spec.
- Dry Heat Oven test: As per IEC 60255-1-2009 CL 6.12.3.1
- Cold test: As per IEC 60255-1-2009 CL 6.12.3.2

BACK VIEW



SAHYADRI®

ISO 9001:2015 Certified



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