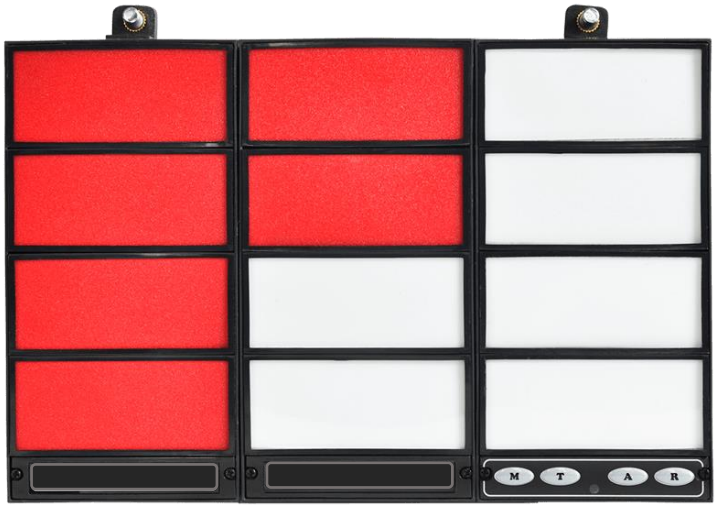


PALM TREE

ENGINEERING PRODUCTS PRIVATE LIMITED

ALARM ANNUNCIATOR

"PROCESS MEASUREMENT & CONTROL SPECIALISTS"

contact@palmtreeind.com

www.palmtreeind.com

ALARM ANNUNCIATOR (PAN-200 SERIES)

PALM TREE ENGINEERING (PTE) Make Alarm Annunciator - PAN 200 series is designed with Micro controller 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 OEMs in India.

FEATURES:

- Advanced high speed Single Chip Microcontroller with reliability and accuracy
- Available from 2 windows to 64 windows
- Available in small, big windows and combination of both
- Low power consumption
- Long life super bright SMD LED used
- With multi-color 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 color
- Field selectable Trip & Non trip
- Field selectable NO/NC inputs
- Field selectable operating Mode
- Field selectable window flash rate
- Field selectable Alarm during Test
- Provision for External Push buttons for Test, Mute, Accept & Reset
- Built in Push buttons — 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
- Low depth

TECHNICAL SPECIFICATION:

- **Windows available:** 2,4,6,8,12,14,16,18,20,22,24,26,28,30,32,34,36,40,42,44, 46,48,52,56,60&64 windows
- **Aux. supply: 1)** 10 to 18 V DC **2)** 20 to 150V DC **3)** 75 to 275V AC/DC
- **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 / 60 flashes per minute —site selectable
- **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 N0/NC selection is optional)
- **Input Isolation:** Opto isolated (2 kV) (from internal circuits)
- **Response Time:** 20 msec (other response time is upon request)
- **Sequence of operation:**

  Site selectable — Type -1: Normal, Ring Back, Auto Accept & Priority Mode (first out)

  or

  Site selectable — Type -2: Manual Reset M, Auto Reset S, First UP and Manual Reset N
- **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:** Inbuilt push buttons for Test, Mute, Accept & Reset and also terminals provided for external PB's
- **Enclosure:** FR Grade ABS plastic
- **Protection:** Front: IP54, Back: IP20

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 1NO 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)

PANEL CUTOUT:

BIG WINDOWS – 34 X 74 mm				BIG WINDOWS – 34 X 37 mm			
NO. OF WINDOWS	CASE	PANEL CUTOUT	FRONT BEZZEL SIZE	NO. OF WINDOWS	CASE	PANEL CUTOUT	FRONT BEZZEL SIZE
4	1N	147(H) X 70 (W) X 120 (D)	154(H) X 78 (W)	40	10N	147(H) X 772 (W) X 120 (D)	154(H) X 780 (W)
8	2N	147(H) X 148 (W) X 120 (D)	154(H) X 156 (W)	44	11N	147(H) X 850 (W) X 120 (D)	154(H) X 858 (W)
12	3N	147(H) X 226 (W) X 120 (D)	154(H) X 234 (W)	48	12N	147(H) X 928(W) X 120 (D)	154(H) X 936 (W)
16	4N	147(H) X 305 (W) X 120 (D)	154(H) X 312 (W)	52	13N	147(H) X 1006 (W) X 120 (D)	154(H) X 1014 (W)
20	5N	147(H) X 383 (W) X 120 (D)	154(H) X 390 (W)	56	14N	147(H) X 1084 (W) X 120 (D)	154(H) X 1092 (W)
24	6N	147(H) X 461 (W) X 120 (D)	154(H) X 468 (W)	60	15N	147(H) X 1162 (W) X 120 (D)	154(H) X 1170 (W)
28	7N	147(H) X 538 (W) X 120 (D)	154(H) X 546 (W)	64	16N	147(H) X 1240 (W) X 120 (D)	154(H) X 1248 (W)
32	8N	147(H) X 616 (W) X 120 (D)	154(H) X 624 (W)				
36	9N	147(H) X 694 (W) X 120 (D)	154(H) X 702 (W)				

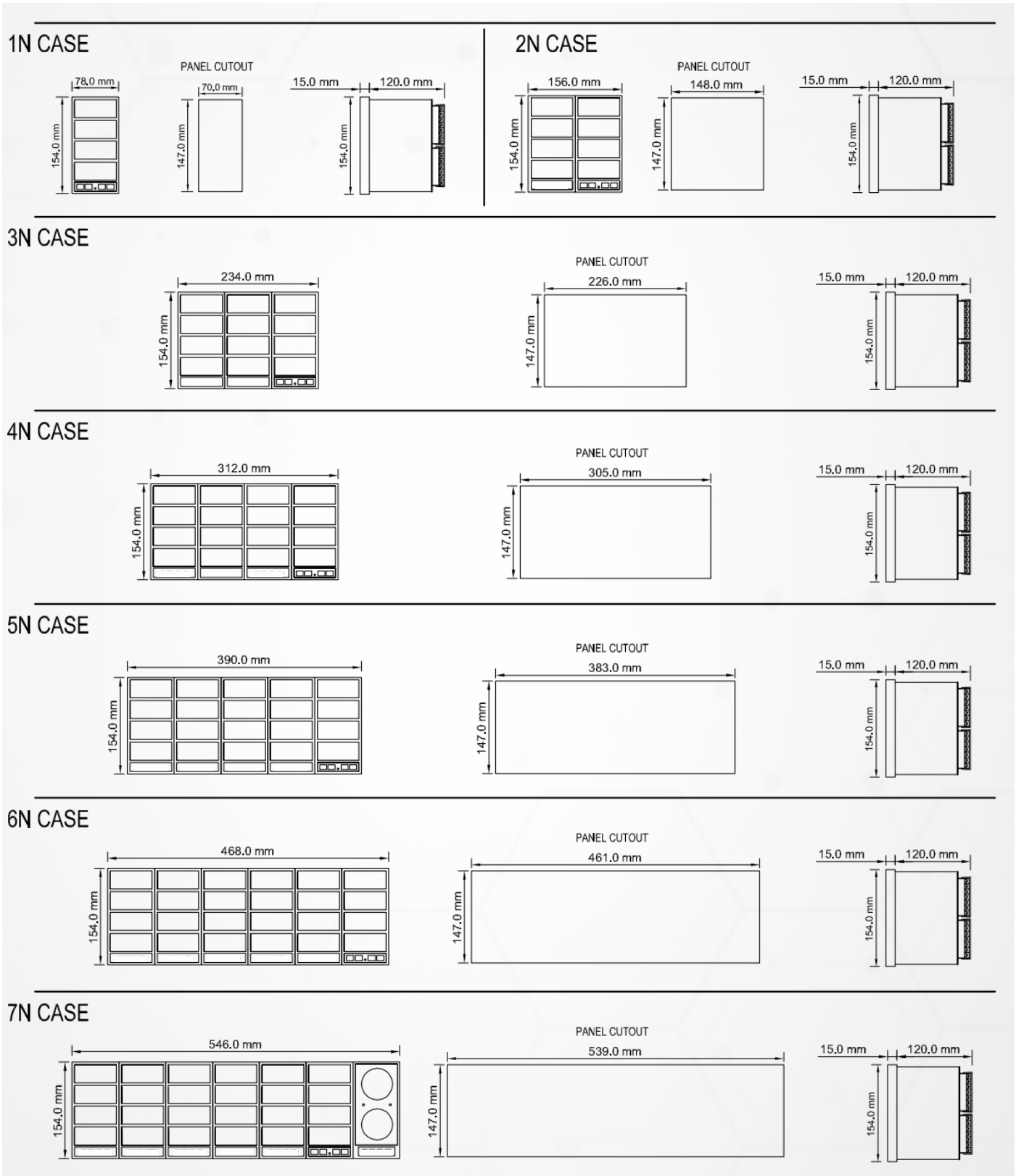
SMALL WINDOWS – 34 X 37 mm			
NO. OF WINDOWS	**CASE**	**PANEL CUTOUT**	**FRONT BEZZEL SIZE**
8	1N	147(H) X 70 (W) X 120 (D)	154(H) X 78 (W)
16	2N	147(H) X 148 (W) X 120 (D)	154(H) X 156 (W)
24	3N	147(H) X 226 (W) X 120 (D)	154(H) X 234 (W)
32	4N	147(H) X 305 (W) X 120 (D)	154(H) X 312 (W)
40	5N	147(H) X 383 (W) X 120 (D)	154(H) X 390 (W)
48	6N	147(H) X 461 (W) X 120 (D)	154(H) X 468 (W)
56	7N	147(H) X 538 (W) X 120 (D)	154(H) X 546 (W)
64	8N	147(H) X 616 (W) X 120 (D)	154(H) X 624 (W)

Standard Compliances:

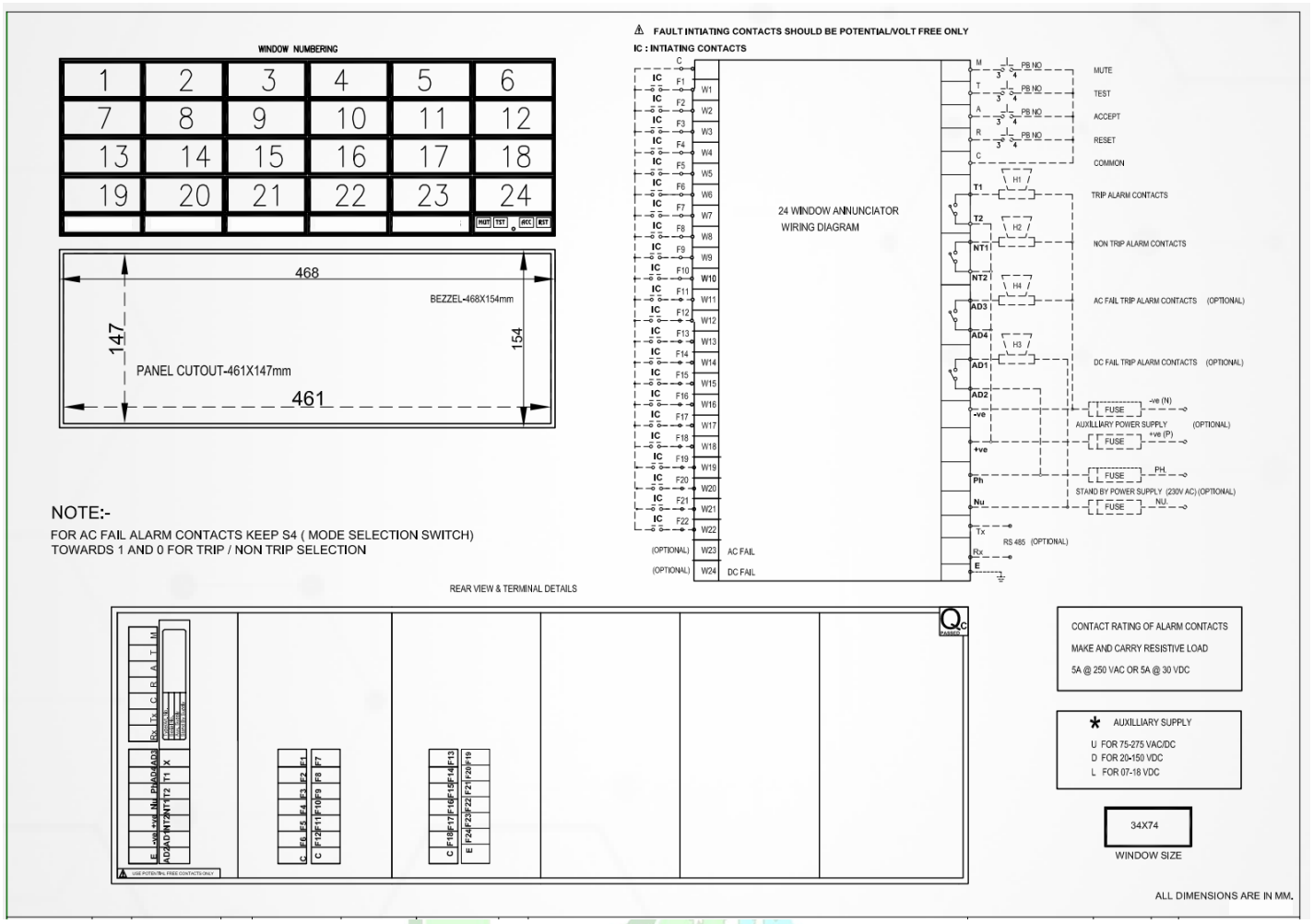
- Initiation Test: As per Manufacturer spec.
- Burden Test: As per Manufacturer spec.
- Dielectric Test: As per IS 3231
- Aux. supply Variation Test: As per Manufacturer Spec.
- Electromagnetic radiation disturbance measurement Test: As per CISPR11: 2010 Class A
- Electrostatic discharge Immunity: As 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

DIMENSIONAL DETAILS:



WIRING AND PANEL CUTOUT DRAWING:



FRONT VIEW

BACK VIEW

PALM TREE ENGINEERING PRODUCTS PRIVATE LIMITED
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