

ALARM ANNUNCIATOR

T-AA-300-B16



OVERVIEW SerTEL Alarm Annunciator is a persistent surveillance system deployed to watch and sense devices of many types and functions. T-AA-300 can be configured to provide the best solution for various size and complex alarm scheme.

With field proven multi-redundant ASIC design, this Annunciator is highly reliable and programmable for all applications and industries.

Wide range of window size, colours could be accustomed as required. Each individual alarm is fully programmable from the front end using the integrated programming module. This allows the user to select many different features giving thousands of possible combinations.

Numerous relay outputs are included as standard output to connect to external equipment and individual repeat relays or communications can be supplied as an optional output.

The programming flexibility creates option for the users to easily configure many operations including alarm sequence, time delays, relay operation, first-up grouping, functionality, communication and so on. Multiple back lit windows are provided,

OPERATION The annunciation unit is built with panel mountable and wall mountable types which can be supplied as per requirement. In front side, removable Legend display Facias are installed in A4 size standard sheets. In the rear side, the input connections and power supply connections are provided.

Input card and the mother board cards are completely isolated. Input cards have connection to the input field contacts, power supply unit and external push button connections. All inputs are completely isolated from the mother board. This input card can serve from 8 to 1000 channels by cascading them.

Card extensions are provided for easy increase in channels by creating a daisy-chain network of Input, Output, Repeat Relay cards. The alarm contact relays and hooter contacts are present in the input card.

Each channel can be configured for Trip / Non-trip Alarm and N.O. / N.C. Input configurations.

The whole unit has self-diagnostic features, power failure management and other redundancy features. Power failure indications are provided in the front side of the annunciator.

KEY FEATURES

- Highly customizable configurations.
- Optically isolated fault inputs.
- Facias with back-lit facility.
- User Selectable Fault contact configurations.
- Modern aesthetic design.
- ISA-18.1 annunciation sequences: A, M, R, F1A, R-12-User Selectable.
- Ruggedized to meet industrial, utility standards.
- Serial ports, TCP/IP outputs available for communication with other devices.
- Front Panel configuration access provided.
- RS485/IRIG-B input with 1 ms SER time-stamping for Event Recording.
- Programmable PC software interface provided optional.
- Spare Windows provided for Emergency situations.
- Split type, field/panel separate instrument.
- 1-4000 points.
- External Time Synchronization RS232/IRIG-B.
- External GPS time synchronization.
- SoE Testing-optional.
- Fast Response.
- GSM/GPRS On Request.

TECHNICAL SPECIFICATION

WINDOW

Display	: Back-Lit
No. of Channels	: 16 Channels
Window Dimension	: 48 x 72 mm
Type	: White Acrylic Flat Lens
Colour	: Red, Amber
Flash Time	: Fast – 15 Hz (0.4 s ON, 0.4 s OFF) Slow – 0.1 Hz (1.1 s ON, 1.1 s OFF) Intermittent – (0.4 s ON, 1.8 s OFF)
Alarm Sequences	: ISA-18.1 Annunciation Sequences: A,M,R,F1A, R-12 (User Selectable)
Type of Mounting	: Panel Mounting

ENVIRONMENT

Operating Temperature	: 20 °C – 60 °C
Storage Temperature	: 20 °C – 80 °C
Humidity	: 0-95% RH, non condensing

AUXILLIARY POWER INPUT

Fuse Protected	
Voltage	: 90 – 240 V AC/DC
Power Consumption	: 600 mW per window

ALARM CONTACT INPUTS

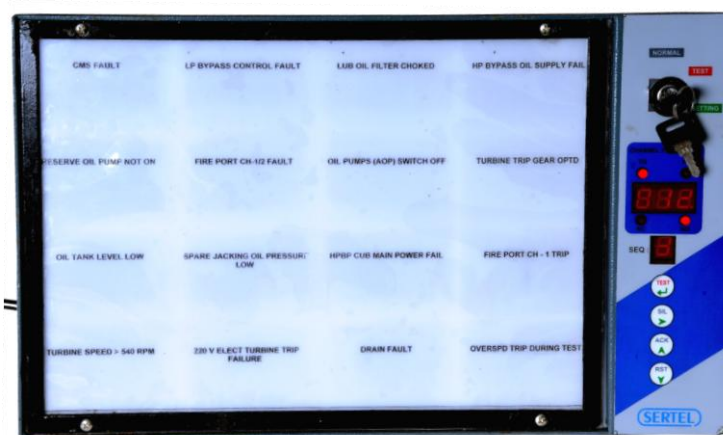
Fuse Protected	
Voltage	: 12 V DC (as per requirement)
Input Current	: 1 mA (typical)

RELAY OUTPUTS

Repeat Relays	: Potential free for each alarm points 5 A at 250 V AC, 3A at 30 V DC. Resistive Load
Alarm, RBACK	: 5 A at 250 V AC, 5 A at 30 V DC. Resistive Load.

TEST AND STANDARDS

Dry Heat Test	: IEC 60068-2-2
Damp Heat (Steady State) Test	: IEC 60068-2-3
Sinusoidal Vibration Test	: IEC 60068-2-6
Electrostatic Discharge Immunity Test	: IEC 61000-4-2,2001
Radiated Susceptibility Test	: IEC 61000-4-3,2006
Electrical Fast Transient Immunity	: IEC 61000-4-4,2004
High Energy Surge Immunity Test	: IEC 61000-4-5,2006
Conducted RF Immunity Test	: IEC 61000-4-6,2004
Power Frequency Magnetic Field Test	: IEC 61000-4-8,2001
Damped Oscillatory Wave Immunity	: IEC 61000-4-12,2001
Dust / Water	: IP 55



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