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TR-2100ECSR / TR-2100ECSB

Scalable Analog/Addressable Fire Alarm Control System

The TR-2100ECSR (red) and TR-2100ECSB (black) are intelligent analog/addressable Fire Alarm Control Panels combined with an Emergency Communication System (ECS). When the ECS features are enabled, they are integrated with the fire alarm and voice evacuation functions of the control panel. The TR-2100ECSR & TR-2100ECSB panels and accessories provide features to meet the requirements for Mass Notification Systems as described in UL 2572.

The TR-2100ECSR & TR-2100ECSB panels contains one built in signaling line circuit (SLC), which can support 159 sensors and 159 modules per loop. Additional SLC loops can be added using the model TR-6815 SLC expander to increase the overall point capacity to a maximum of 2100 points per panel.

TR-2100ECSR & TR-2100ECSB have the interconnection capability for up to 32 panels. The system has two modes of operation, multiple panels covering one larger building, or multiple independent buildings. A separate network can be used for voice paging across all panels.

The TR-2100ECSR & TR-2100ECSB supports a variety of devices, including TD-RD2R or TR-RD1G remote annunciator, TR-5824 serial/parallel printer interface module (for printing system reports) TR-RPS1 power module.

TR-2100ECSB

COMPATIBILITY

The TR-2100ECS is compatible with the following ECS components:

- TR-50W, TR-125W, TR-50WINT or TR-DUAL50W Amplifier
- TR-SW24: 24 switch expander (max 2)
- TR-LOC2100: Local Operator Console
- TR-LOC2100B: Local Operator Console. Black
- TR-RPU: Remote Paging Unit

FEATURES & BENEFITS

- Single enclosure for both Fire and Emergency Control System components
- Can select ECS message as priority over fire
- Network support for up to 32 Sites
- Built-in support for upto 159 detectors and 159 modules.

- Four line LCD display with 40 characters per line
- Available in a red or black cabinet
- Separate network support for voice paging
- Built-in USB interface for programming
- Four programmable function keys

- Built-in dual phone line, digital alarm communicator/ transmitter (DACT), IP or optional cellular technologies
- JumpStart AutoProgramming ® feature for easy programming
- Capable of producing 520 Hz tones to meet NFPA 72 requirements

- 15 Recordable one minute messages that can be mapped to eight ECS buttons
- Firmware can be upgraded in the field
- Supports up to four SWIFT wireless gateways. Each gateway can have up to 49 wireless devices

- Support for up to 16 SBUS addressable amplifiers using a combination of TR-50W, TR-125W, TR-50WINT or TR-DUAL50W for a maximum of 2000 watts per system and up to 128 mappable speaker circuits
- On-board supervised microphone

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Technical Specifications

PHYSICAL
Overall Dimensions: 21.59"W x 28.10"H x 5.05"D
Shipping Weight: 53 lbs.
Color: Red or Black

ENVIRONMENTAL
Operating Temperature: 32°F to 120°F (0°C to 49°C)
Humidity: 0 to 93% relative humidity (noncondensing)

ELECTRICAL
TR-2100ECSR AC: 240V @ 50/60Hz, 2.8A Total Accessory Load
Standby Current: 230mA
Alarm Current: 415mA
Battery Charging Capacity: 7 to 55AH
Battery Size: 18AH max. allowed in control panel cabinet. Larger capacity batteries can be housed in RBB accessory cabinet.
Six Conductor Wiring: Two voice bus & four SBUS

FLEXPUT CIRCUITS
Eight circuits that can be programmed individually as:
Notification Circuits: 3A per circuit @ 27.4VDC, power limited
Auxiliary Power Circuits: 3A per circuit @ 27.4VDC, power limited.
Initiation Circuit: 100mA per circuit @ 27.4VDC, power-limited

APPROVALS
NFPA 13, NFPA 15, NFPA 16, NFPA 70, & NFPA 72: Central Station, Remote Signalling, Local Protective Signalling Systems, Auxiliary Protected Premises Unit & Water Deluge Releasing Service
UL Listing

ORDERING INFORMATION
TR-2100ECSR: High Voltage (240V) Emergency Communication System with FACP. Red Cabinet.
TR-2100ECSB: High Voltage (240V) Emergency Communication System with FACP. Black Cabinet.

ECS ACCESSORIES
TR-50W: 50 Watt Single Channel Amplifier
TR-125W: 125 Watt Single Channel Amplifier
TR-DUAL50W: 50 Watt Dual Channel Amplifier
TR-50WBU: External Backup Amplifier
TR-CE4: Provides 4 additional audio circuits
TR-SW24: 24 Switch Expander
TR-LOC2100: Local Operators Console, Red
TR-LOC2100B: Local Operator Console, Black
TR-RPU: Remote Paging Unit, Red

SBUS ACCESSORIES
TR-RD2R, TR-RD1G, TR-RD1R, RA-100,
TR-RD2G: Remote annunciators
TR-6815: Signal Line Circuit (SLC) Expander
TR-RPS1/B: Power Supply, Red or Black
TR-5824: Serial/Parallel Module
TR-5880: LED I/O Module
TR-5865-3 or TR-5865-4: LED Annunciator
TR-5883: Relay Interface

MISCELLANEOUS ACCESSORIES
TR-SCK: Seismic Compliance Kit
TR-NIC: Network Interface Card
TR-FML: Multi Mode Fiber Card
TR-FSL: Single Mode Fiber Card

This document is not intended to be used for installation purposes. We try to keep our product information up-to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

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