Datasheet

KELTRON

Keltron Solid State Master Box

FM APPROVED

Provides transmission of multiple signals

Enables accurate alarm response

Withstands severe climate conditions

The coded loop fire alarm system has long provided a means for transmitting fire alarms to the fire department from a protected building or facility. The original technology is more than a century old and has withstood the test of time, however today's new technologies provide ways to improve on this venerable system.

The major benefit of **Keltron's solid state master box** is that by monitoring multiple outputs from an existing fire panel and allowing the transmission of multiple signals, it enables the fire department to receive alarms by zone and differentiate among alarms, troubles or supervisory signals, increasing the accuracy and speed of their response.

Keltron Solid State Master Box Features

Keltron's solid state master box is an NFPA 72-compliant electronic coded transmitter for use on telegraphic fire alarm reporting systems. It is designed and manufactured using components that are known for their reliability and ability to withstand severe climate conditions and temperature extremes.

The Keltron solid state master box is comprised of a rugged solid state microprocessor-based circuit board mounted to a plate with a city loop terminal block, disconnect switch, and a TII transient voltage suppressor. Features include:

- Adjustable code timing from 1/8 to 2.5 seconds in 1/16-second increments
- Eight programmable input zones and eight respective zone relays
- Each input zone is programmed as normally open or normally closed
- Local energy trip input
- Bulldog operational mode options for alarm or trouble
- Plug in connector terminals for all field wiring
- Computer diagnostics
- Earth ground return is programmable for municipal or summoning
- Piezo sounder activates on either trouble or alarm and may be silenced
- Alarm condition activates respective zone relay and general alarm relay
- Fail-safe trouble relay is normally energized; any trouble condition will de-energize the relay causing status change
- Field-programmable functions using desktop/laptop with standard 9-pin straight through cable, or using onboard rotary switches
- Programmable functions include: alarm code/number of rounds, trouble code/number of rounds, restoral code
- Programming software and guide CD
- *Municipal or summoning loop operation options

*Municipal - telegraphic loop remains open between digits and rounds, enhancing PNIS operation
Summoning - telegraphic loop is closed between digits and rounds

Technical Specifications

EOL resistor

Zone supervision uses a 10K end-of-line resistor

Power supply

The power source is typically supplied from a fire alarm control panel but it may be powered by any listed or approved power supply source that has supervised battery charging and standby power.

- Optional UL-listed power supply/battery charger
- Two 12V sealed lead acid or gel cell type batteries for the power supply
- Current draw: idle - 42 mA, 500 mA maximum, all zones in alarm, all relays energized and transmitting
- Operating voltage 24-30VDC, filtered and regulated input power

Transmitter

- Operating temperature -40F to 158F (-40C to 70C)
- Operating humidity 90% non-condensing
- Weight without enclosure 3.30 lbs
- Dimensions without enclosure 11.00"L x 9.25"W x 3.00"D

Enclosure options

- Standard interior steel enclosure, hinged door, optional lock assembly tan finish, dimensions 15.50"L x 11.25"W x 4.5"D
- Optional NEMA1 interior steel enclosure, hinged door, lock assembly and two keys, UL-listed power supply/charger, red finish, dimensions 15.75"L x 14.75"W x 4.75"D

Installation Features

- Rugged mounting plate enables easy installation or replacement in any type of existing or customer-supplied enclosure
- Plug-in connector terminals simplify field wiring or removal/replacement of transmitter circuit board
- All functions are field-programmable by installer or authority having jurisdiction
- One year limited warranty

Keltron develops and manufactures universally-compatible, UL listed life safety event management systems for the municipal and proprietary markets. Solutions include Ethernet signaling systems, active network radio systems, distributed multiplex systems, digital communicator/ receiver systems, and direct wire systems. This document is not intended for installation or maintenance purposes. All specifications are subject to changes without notice. For more information visit www.keltroncorp.com or contact us at 781-894-8710.

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