



*Kingfisher Company, inc.*

## **ELECTRONIC MASTER BOX PRODUCT OVERVIEW ELECTRONIC TELEGRAPHIC ALARM TRANSMITTER**

The Electronic Master Box (EMB) is an NFPA 72 compliant electronic coded transmitter for use on telegraphic fire alarm reporting systems. The EMB has been engineered and built with rigged components to provide many years of trouble free service.

The EMB is comprised of a rugged solid state microprocessor based circuit board mounted to a durable mounting plate with a city loop terminal block, disconnect switch and a TII transient voltage suppressor. The mounting plate allows for easy installation or replacement in any type of existing or customer supplied enclosure.

Two NEMA 1 enclosures are available for indoor installations. The Standard enclosure houses the EMB only. The larger Power Supply enclosure houses the EMB, power supply/battery charger and batteries. The power supply requires two 12V Sealed Lead Acid or Gel Cell type batteries. Batteries are customer supplied.

The EMB operates on 24VDC, filtered and regulated input power. 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 having supervised battery charging and standby power.

Eight programmable input zones and eight respective zone relays are provided. Each input zone can be programmed as a normally open or normally closed initiating circuit actuated by any dry contact relay or device. A local energy trip input is also provided. Normally open circuits are supervised using a 10K end of line resistor installed across the circuit at the last contact device on the circuit. Normally closed circuits are supervised using a 10K end of line resistor installed in series with the last contact device on the circuit. All circuits are supervised for opens, shorts and ground fault conditions.

Plug in connector terminals are provided for all field wiring. The connectors allow for easy trouble shooting or board removal and replacement.

A piezo sounder is provided that will actuate on either trouble or alarm. The sounder is silenceable, however, any subsequent alarm or trouble will re-actuate the sounder. Any alarm condition will actuate the respective zone relay and the general alarm relay. The failsafe trouble relay is normally energized and any trouble condition will de-energize the relay causing to change state.

All functions of the EMB are field programmable using a desktop or laptop computer and the simple program supplied. Some functions and programming can also be performed using the onboard rotary switches. Refer to the programming guide for the details.

Kingfisher Company, inc., products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Kingfisher Company, inc., standard terms and conditions

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