



*Kingfisher Company, inc.*

## ELELCTRONIC MASTER BOX TRANSMITTER INSTALLATION INSTRUCTIONS

Each transmitter is shipped completely assembled and installed in the enclosure specified when ordered. The Transmitter is the same unit regardless of the enclosure type.

All wiring shall be in accordance with all federal, state and local code requirements including but not limited to the requirements of the National Electrical Code NFPA Standard 70 and the National Fire Alarm Code NFPA 72.

1. Connect regulated/filtered 24vDC power from an NRTL power supply to the DC input terminals. Observe polarity as shown on the wiring diagram.
2. If using internal power supply version, connect AC power input to 120VAC nominal AC line source. It is recommended that the EMB be wired with its own breaker. Connect the standby batteries to the power supply BAT+ and BAT- terminals.
3. Connect the city loop circuit and the surge suppressor to the terminal block as shown on the wiring diagram. Ground the circuit in accordance with the requirements of the AHJ.
4. For local energy trip, connect the municipal trip circuit from the FACP to the Local Energy Input Z9. The municipal trip circuit must comply with the requirements as set forth in NFPA-72. Observe polarity as shown on the wiring diagram.
5. For activation by dry contact zones, connect the NO or NC dry contact devices to the respective input zones. Install a 10K resistor across the device contacts for NO circuits. Install a 10K resistor in series with the circuit for NC circuits. Program each circuit for NO or NC activation as required for the application.
6. Install a 10K resistor across the zone terminals for proper supervision of all unused zones.
7. Program the zone and system functions per application and AHJ requirements.
8. Test the transmitter by shorting a NO input zone or opening a NC input zone. The zone relay and general alarm relay will actuate. Verify that the appropriate alarm LED illuminates, and the Piezo sounder sounds. The sounder will operate on any alarm or trouble condition and can be silenced via the SIL/TEST button. The sounder will resound on any subsequent alarm or trouble condition.
9. Loss of the city circuit or operation of the disconnect switch can be programmed to either force a trouble condition, or not.
10. Each input zone and the local energy trip zone is automatically assigned to a corresponding SPDT dry contact annunciation relay. Test corresponding relays for activation, if used.

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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