



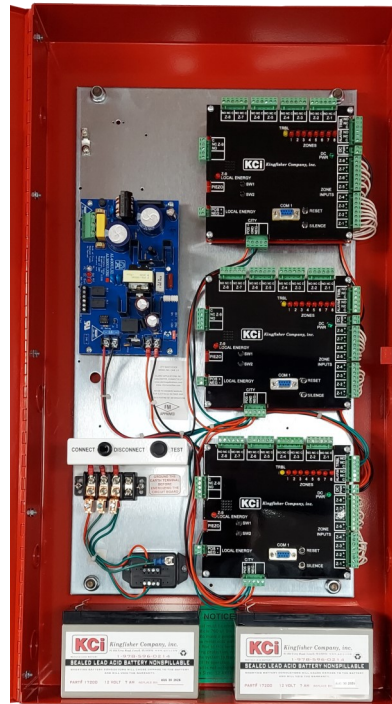
Kingfisher Company, inc.

# EMB ELECTRONIC MASTER BOX



## Features:

- 8-24 Programmable Coded Input Zones
- Up to 6-digit Box Numbers and Codes per Zone
- City Loop Shunt Switch with Test Key
- Simple Field Programming via iOS or Android App
- Field Programmable Timing and Box Number
- Earth Ground Return (EGR) Function
- Positive Non Interfering Successive (PNIS) Function
- General Alarm Relay, Fail Safe Trouble Relay
- 8-24 Form-C Zone Relays for annunciation
- Local Energy Trip Circuit
- NEMA1 or NEMA3R Enclosures
- FACP (+24VDC) or AC line powered
- FM Approved



KCi #99722-24  
Electronic Master Box  
24 Zones AC Powered

## Description:

The Electronic Master Box (EMB) is capable of transmitting up to 24 codes or zones. This significantly increases the performance of the public reporting alarm system because it enables the alarm receiving and dispatch operations to differentiate various types of alarms transmitted from a facility, increasing the speed and accuracy of their response.

The Electronic Master Box is Factory Mutual Approved and compliant with the requirements specified in NFPA 72, Chapter 9, Public Fire Alarm Reporting Systems. It is manufactured in the USA using Industrial Grade Components and designed and built to provide rugged and dependable service under harsh conditions.

## Models/Description:

The EMB is available in standard NEMA1 enclosures for indoor use, or NEMA3R weatherproof enclosures for outdoor applications. The EMB can be preconfigured as follows for cabinet, power supply, and zone count variations:

- EMB08-FP** Eight Zone Electronic Master Box mounted in NEMA1 enclosure, powered from FACP +24VDC Aux output or other FM approved +24VDC power source.
- EMB08-PS** Eight Zone Electronic Master Box mounted in a NEMA1 enclosure, powered from AC line. Includes power supply and support for backup batteries (required).
- EMB16-PS** Sixteen Zone Electronic Master Box mounted in a NEMA1 enclosure, powered from AC line. Includes power supply and support for backup batteries (required).
- EMB24-PS** Twenty-four Zone Electronic Master Box mounted in a NEMA1 enclosure, powered from AC line. Includes power supply and support for backup batteries (required).
- EMB-PSO** 8-24 Zone enclosure with mounting plate, disconnect switch assembly, and AC power supply.
- EMB-RB** 8-Zone Electronic Master Box circuit board for field replacement.
- EMB-RK** Retrofit Kit for Mechanical Master Box. (Retrofit Kit includes Electronic Master Box mounted on a Subplate to swap out Mechanical Master Box & Wiring and Install Instructions. Powered from FM listed +24VDC source with backup.) Contact Customer Service for your specific application.

## Specifications:

### POWER

24VDC Nominal Input from FM approved source:

20.4 – 30VDC, Non-Resettable, Filtered and Regulated. Standby Current @24VDC: 52mA 8-Zone Alarm Current @24VDC: 68mA with One Zone in Alarm and Transmitting

AC Input (when used with optional AC power supply)

120 – 240 VAC Nominal 3A Max.

### Secondary Power

2x 12V Sealed Lead Acid Gel Cell Batteries.

### CONTACT RATINGS

Dry Contacts – 30VDC 1A max

Municipal Loop – 240V 1A max

### ENVIRONMENTAL

Operating Temperature -40°F to 158°F (-40°C to 70°C) Operating Humidity 90% Non-Condensing

### ENCLOSURES

Standard Enclosure, FM Approved NEMA1, 16 Gauge Steel, Red powder coat finish, lock and two keys. Houses the transmitter only. Requires external 24vdc from FM approved source. Dimensions 18" L x 12" W x 3.3" D

Power Supply Enclosure, NEMA1, 16 Gauge Steel, Red powder coat finish, lock and two keys. Houses the transmitter, power supply/charger and backup batteries. Requires 120VAC and two 12V / 7AH sealed lead acid gel cell batteries. Dimensions 30" L x 16.25" W x 3.5" D

NEMA 3R Weatherproof Enclosure, 16 Gauge Aluminum, Red powder coat finish, full length piano hinge door, lock assembly and two keys. Houses the transmitter only. Requires external 24vdc from FM approved source. Dimension of Enclosure 14.5" L x 10.5" W x 8.5" D plus dimension of top and bottom mounting tabs 10" x 1.5".

## ORDERING INFORMATION

KCi #	Model #	Description
99721	EMB08-FP	Electronic Master Box, 8 Zone, 24V FACP Powered, NEMA 1 Enclosure
99722	EMB-PSO	Electronic Master Box, No EMB, AC Power Supply, NEMA 1 Enclosure
99722-08	EMB08-PS	Electronic Master Box, 8 Zone, AC Power Supply, NEMA 1 Enclosure
99722-16	EMB16-PS	Electronic Master Box, 16 Zone, AC Power Supply, NEMA 1 Enclosure
99722-24	EMB24-PS	Electronic Master Box, 24 Zone, AC Power Supply, NEMA 1 Enclosure
99722-C	EMB-CUS	Electronic Master Box, Custom, Consult Factory for Options
90026	EMB-FS	Electronic Master Box Programming & Testing
99726	EMB-KCI	KCi Cordless Interface—EMB Programmer & Power Cable
91722	FM-L	Semi-Flush Trim Kit, Large Enclosure, Red (Can be used with 99722, 99722-08, 99722-16 & 99722-24)
91722-B	FM-L-B	Semi-Flush Trim Kit, Large Enclosure, Black (Can be used with 99722, 99722-08, 99722-16 & 99722-24)
91723	FM-S	Semi-Flush Trim Kit, Small Enclosure, Red (Can be used with 99721)
91723-B	FM-S-B	Semi-Flush Trim Kit, Small Enclosure, Black (Can be used with 99721)
91724	FM-C	Semi Flush Mount Kit, Red
91724-B	FM-C-B	Semi Flush Mount Kit, Black
RETROFIT / REPLACEMENT KITS		
99721-RB	EMB-RB	Electronic Master Box, 8 Zone Replacement Board
99723	EMB-RK	Electronic Master Box Retrofit Kit for Mechanical Boxes (Kit includes 8 Zone Electronic Master Box, 24VDC FACP powered, mounted on a Subplate with Wiring and Install Instructions.) Contact Customer Service for your specific application.
99722-PS	EMB-PS	Electronic Masterbox Replacement 120VAC Power Supply
99721-DTS	EMB-DTS	Specification Data Sheet

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), Factory Mutual (FM), 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).

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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