

Master Control Technologies



FEATURES

- 20 EPO Relay Outputs
- 4 EPO Inputs
- Individual EPO Relay overrides.
- 12VDC output to REPO Switch Lamps
- Key locked EPO inhibit switch (for maintenance work on the EPOCC without tripping the shunt)

OPTIONS

- **TM-BTY** 12 VDC Battery Backup
- **TM-TD** Time Delay 1-30 second time delay to prevent accidental shunt tripping
- **TM-AD** Internet remote alert for Emails, Text Messages, SNMP and MODBUS
- **SFO1** EPO Inhibited alarm output contact
- **SFO2** Audible Alarm w/Silence Button
- **SFO3** Normally Closed EPO Input
- **SFO6** EPO TD Active alarm output contact

Master Control Technologies

330 W US HWY69
Point, Texas 75472

Phone: 214-607-9991
Mobile: 903-456-7844

www.mastercontroltechnologies.com



TRIPMASTER XL

EPO Control Center Operation



GENERAL

The TripMaster XL is designed to provide a simple "Off the Shelf" solution for emergency power off (EPO) control requirements. The EPOCC simplifies designing EPO control systems by providing individual relay outputs for up to 20 different systems in the data center.

The standard design of the TM-XL eliminates the problems found when using custom designed and site built EPO control systems. The TM-XL is a perfect add-on to control EPO operations from a single output of a fire suppression or detection system. The TM-XL provides 20 outputs. Up to 20 systems can be controlled with the TM-XL's Form "C" non-powered relays. Each relay output is isolated making it easy to mix control voltages without risky onsite wiring kluges.

EPO OPERATION

When a remote EPO switch is activated a latching relay senses the signal and locks all the output relays in the EPO position. Once in an emergency position, the TM-XL will require a manual reset to return to normal operation.

Battery Backup

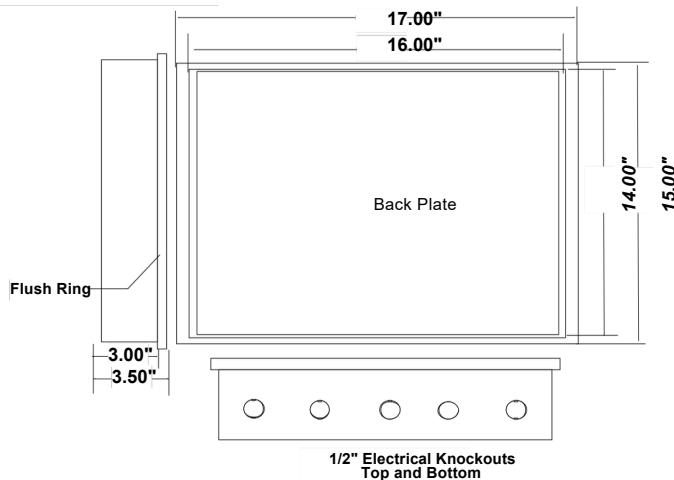
Each TM-XL is supplied with a DC voltage power supply that provides an input for standard 12VDC batteries. The TM-XL also provides charging for the batteries.

Time Delay

The TM-XL can be equipped with an optional adjustable time delay in the EPO latching circuit. The Time delay (TM-TD) will prevent accidental shunt tripping by delaying the shutdown. This will prevent accidental shut down due to human error when depressing control buttons next to entrance doors. The (TM-TD) is available as an option.



Dimensions:



Wiring Schedule

Input Type	Wire Type	No. Conduit.	Wire Size
EPO Input	THHN	2	18-22 Stranded
Remote Reset	THHN	2	18-22 Stranded
Relay Output	THHN	2	18-22 Stranded
Power Input	THHN	3	14-16 Stranded

SPECIFICATIONS

Model Number

TM-EPOCC

TM-BTY

TM-TD

20 Relay Model Sealed
lead Acid 12VDC Battery
Time delay Timer

Electrical

Power

24VAC @ 40V

EPO Outputs

Form "C" Relay Contacts

No. of Outputs

20 120VACV@2AMPS

No. EPO Inputs

4

Control Switches

EPO Reset

Push button

EPO Inhibit

Key Lock Switch

Remote Switches

EPO Input type

N/O Switch or Relay

Remote Reset

Normally Closed

Environmental

Temperature

0-125 F

Humidity

5-95%Rh Non-condensing



The Main Control Board and DC Power Supply



EPO On Led– Lights when the EPO lock relay is energized.

EPO Inhibit On Led– Lights when the EPO Inhibit switch is locked out.

Power On Led– Lights when power is on to the TM-XL

EPO Reset Switch– Press the Reset switch to reset the TM-EPOCC after an EPO shutdown.

EPO Inhibit Key Lock Switch– Turning this switch horizontal locks out the EPO output relays from the locking relay preventing the EPO output relays from latching.

Fuse– 2 Amp power fuse.

TripMaster AD Remote Notification Option



OPTIONAL TM-AD
ALERT SYSTEM

EPO ACTIVE
EPO TD ACTIVE
EPO INHIBITED



The TripMaster Auto-Dialer (TM-AD) option allows the TM-XL to remotely announce alarms using the Internet to email, text messages, SMTP or MODBUS. This option requires an Ethernet connection to the Internet provided by others. The alarm inputs to the TM-AD are factory pre-wired. TM-AD is field programmed via web page and the TM-AD stores historical data logging of alarm events.

Alarm Notifications -EPO Activate, EPO Time Delay Active and EPO Inhibited plus 3 additional alarm outputs.

Notification Types-Email, Text Message, SNMP Traps, MODBUS/TCP Slave and HTTP Web page.