

SECTION 16920 – ATG EMERGENCY POWER OFF CONTROLLER (EPOC)

PART 1 – GENERAL

1.01 SCOPE

- A. Furnish and install a control panel to interface automatic shut down of the HVAC and Electrical Systems in the data center from the EPO. Switches, Pre-action Fire Suppression System and FM 200 System.

1.02 MANUFACTURER

- A. The EPOC shall be a TripMaster XL (Vendor P/N “TM-XL), as manufactured by Master Control Technologies (MCT) in Point, Texas. Information available at mastercontroltechnologies.com or 214-607-9991.

1.03 OPERATION

- A. The EPOC should be mounted in a secure, indoor location. The EPOC once installed and wired will operate as follows:

1. When a remote EPO switch is pressed the EPOC will capture the EPO request and latch the emergency shutdown request. An indicating LED will light showing the EPO shutdown circuit is active and latched.
2. All EPO output relays will make, thereby shutting down all connected power and facility equipment loads.
3. The EPO output relays will remain closed until the EPO Reset switch is depressed on the face of the EPOC.
4. Once reset the EPO output relays will return to the normal condition until another remote EPO switch is pressed.

PART 2 – PRODUCT

2.01 EQUIPMENT

- A. The EPOC will include 20 Form “C” non-powered relay contacts for emergency power off control of facility equipment. A maintenance manual override should be provided for each EPO output to prevent operation of the output.
- B. There shall be up to four terminals for remote EPO switch inputs. A remote EPO reset shall be provided. 12 volts DC power shall be provided to operate lamps in remote EPO switches.
- C. An EPO Inhibit key lock switch will be provided to disable EPO output relays while maintenance is being performed on the EPO system. An LED will indicate the EPOC is in the Inhibit condition.

- D. The EPOC shall be available with battery backup for operation during power outage. They will be charged by the EPOC's power supply.
- E. The EPOC shall be available with a built-in EPO Time Delay, (TD). The TD will time out when the remote EPO switch is activated. The TD shall be user adjustable for 1 – 30 seconds. No EPO output relays will make and lock until after the programmed time delay has completed. The TD is used to prevent accidental power outages due to EPO switch bounce.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. All wiring and installation shall comply with national and local electrical codes and manufactures requirements. All manufacturer minimum clearances shall be observed.

END OF SECTION