EPACO™ EXPLOSION PROTECTION CONTROLLER

Data Sheet

DESCRIPTION

The Fike Explosion Protection Controller (EPC) is the cornerstone for Fike's EPACO system. The EPC continuously monitors the protected hazard, reacts to incipient explosions, and instantaneously actuates the explosion protection system. The system may include explosion suppression, isolation, or a combination.

The EPC can function as a stand-alone controller where a limited number of protection devices are required, or it can be interfaced with other EPCs for larger systems.

Fike P/N E10-0066

FIKE SERVICES

Fike expertise creates the right explosion protection solution for your specific application:

- Engineers and application specialists familiar with your application and applicable codes
- Product testing and hazard analysis

APPROVALS

- Factory Mutual Approved
- CE marked (EMC - LVD tested and approved)
- ATEX Approved ⟨Ex⟩ D/G II 2/1 D/G when installed with Fike's optional enclosure
- CSA Approved (LR 091515)

FEATURES

Monitors and reports on 32 states, and stores up to 16 history records in relative time. With Annunciator module, it is synchronized to real time

Scaleable with zoning capabilities, system easily programmed in the field to accommodate process changes, adjustable pressure validation

LED light and PC connection offers access to system status, history, pressure readings, and pre/post activation history

BENEFITS

Easy system monitoring and trouble shooting

Enhanced system stability, increased productivity, allows for fast expansion, reduced plant downtime, and reduced installation costs

Instant access to information, ability to identify cause of activation

STANDARD FEATURES/SPECIFICATIONS

- DIP switch or PC programming
- Three Detection Inputs:
  -Two 4-20 mA supervised detection inputs for continuous process pressure monitoring for both static and rate of rise control
  -One supervised contact input for releasing conditions
- One supervised actuator output capable of firing up to six protection components
- One supervised switch input for monitoring trouble conditions
- Supervised "Disable" contact input
- Two dry contact auxiliary relays for annunciation of "Trouble" and "Alarm" conditions to facilitate process interlocks and alarms
- Fire Bus for high-speed control and activation of other EPCs in the same protected volume/area, firing up to 192 actuators within 2 milliseconds (optional connection)
- Status Bus for Fike proprietary network communication of system conditions to other devices (optional wiring)
- Event memory stores 16 of the most recent events in relative time, and counts repetitive high prority events
- DIN rail mount for flexibility during installation
- Optional field enclosure for installation in hazardous areas
- Input Voltage: 18 to 30 VDC, 500 mA maximum

Form No. X.1.01.01-1

704 S. 10th Street · P.O. Box 610 · Blue Springs, Missouri 64013-0610 U.S.A. · (816) 229-3405 · (816) 229-4615 · www.fike.com

STANDARD FEATURES/SPECIFICATIONS (cont.)

- Power Consumption:
  - Normal: 275 mA
  - Trouble: 300 mA
  - Alarm: 200 mA
- Series Fire Output:
  - 6 protection components
  - 10 ohms maximum loop resistance
  - 50 VDC, 3.5 A
- Trouble/Alarm Contact Ratings:
  - DC, 2 amps @ 30 VDC
  - AC, 0.5 amps @ 250 VAC
- Temperature Rating (without additional enclosure):
  - 20°C to 60°C (0° to 140°F)
- Humidity (non-condensing):
  - 80% RH maximum
- Size:
  - 200mmL x 130mmH x 50mmD (7.7”L x 5.2”H x 2.3”D)*
- Weight:
  - 0.7 kg (1.5 lbs.)

** Dimensions are nominal*

Wiring Diagram