EPACO™ EXPLOSION PROTECTION CONTROLLER (EPC)

DESCRIPTION

The Fike Explosion Protection Controller (EPC) is the cornerstone of 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 EPC’s for larger systems.

FEATURES AND BENEFITS

- Monitors and reports easily on 32 states and stores up to 16 history records in relative time. With the Annunciator Module it can be synchronized to real time
- Enhanced system stability
- Fire Bus for high speed control and activation of other EPC’s
- Easily programmable in the field
- Adjustable pressure validation
- LED’s and PC connection offers access to system status, history, pressure reading and pre-post activation history
- Reduce downtime and installation costs
- Approvals: CE, FM

APPROVALS:

- FM approved
- CE marked (EMC-LVD tested and approved)
- ATEX II 2 D Ex tD A21 IP66 (only with optional ATEX field enclosure)
- SIL2 acc IEC61508
### SPECIFICATIONS

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<th>Type</th>
<th>EPACO™ Explosion Protection Controller (P/N E10-0066)</th>
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| **Detection Input** | 2 4-20 mA supervised detection inputs for continuous process pressure monitoring for both static and rate of rise control  
1 supervised contact input for releasing conditions |
| **Input/Output** | 1 supervised actuator output  
1 supervised switch input for monitoring trouble conditions  
1 supervised “disable” contact input |
| **Input Voltage** | 18 to 30 VDC, 500 mA maximum |
| **Power Consumption** | Normal: 275 mA  
Trouble: 300 mA  
Alarm: 200 mA |
| **Series Fire Output** | Suited for up to 6 protection components |
| **Trouble/Alarm Contact Relays** | 2 dry contact auxiliary relays for annunciation of trouble and alarm conditions  
2 A @ 30 VDC |
| **Temperature Rating** | -20°C to 60°C (without additional enclosure) |
| **Humidity (non-condensing)** | 80% RH maximum |
| **Size** | 200 mm x 130 mm x 50 mm (L x H x D) |
| **Weight** | 0.7 kg |
| **Mounting** | DIN rail mount for flexibility during installation |
| **Communication** | Fire Bus for high-speed control and activation of other EPC’s  
Status Bus for Fike proprietary network communication of system conditions to other devices (optional wiring) |