

### EPACO™ EXPLOSION PROTECTION CONTROLLER

#### 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.



Data Sheet

#### 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

#### Specifications

Type	Epaco™ Explosion Protection Controller (PN E10-0066)
Detection Input	<ul style="list-style-type: none"> <li>• 2 4-20 mA supervised detection inputs for continuous process pressure monitoring for both static and rate of rise control</li> <li>• 1 supervised contact input for releasing conditions</li> </ul>
Input/Output	<ul style="list-style-type: none"> <li>• 1 supervised actuator output</li> <li>• 1 supervised switch input for monitoring trouble conditions</li> <li>• 1 supervised "disable" contact input</li> </ul>
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
Approvals	FM approved CE marked (EMC – LVD tested and approved) ATEX II 2 D Ex tD A21 IP66 (only with optional ATEX field enclosure) SIL 2 according to IEC61508
Mounting	DIN rail mount for flexibility during installation
Communication	<ul style="list-style-type: none"> <li>• Fire Bus for high-speed control and activation of other EPC's</li> <li>• Status Bus for Fike proprietary network communication of system conditions to other devices (optional wiring)</li> </ul>