

EX100.1™/EX200™ Single Zone Control Panel

Explosion Protection System Components

Advantages:

- Microprocessor controlled to provide high reliability and operational flexibility.
- Remote arm/disarm capability.
- Self-diagnostic LED fault indicators and built-in test codes for fast, easy troubleshooting.
- Class A or Class B detection wiring options using static pressure, dynamic pressure, or optical detectors.
- Multiple programming options and enclosure ratings to meet specific application needs.
- Single key arming procedure.
- Process interlock contacts included for personnel safety.
- Extinguisher low pressure switch and explosion vent status monitoring.
- 24-hour battery back-up.
- Separate output signals for alarm, trouble/fault, and warning conditions and programmable pre-alarm option.
- Compatible with all IEP Technologies explosion suppressors and isolation valves.
- FM, ATEX, CSA and CE approved.



Application

The EX100.1™ and EX200™ Control Panels provide an economical control solution for vital explosion protection applications. The control panel is designed to provide annunciation and control of explosion protection systems utilizing hardware provided by IEP Technologies and is compatible with numerous detectors, high rate discharge suppressors, and high-speed isolation valves. Typical applications include explosion protection of dust collectors, mills, bins, shredders, dryers and other process equipment handling explosive dusts or vapors.

The EX100 is ATEX approved. The EX200 control panel conforms to the requirements of NFPA 69.

Description

The EX100.1 and EX200 Control Panels are microprocessor based units designed primarily for small to medium sized explosion protection applications. A wall-mounted NEMA 4 (IP66/IP55) enclosure is standard to provide superior protection

against dust and weather infiltration (NEMA 4X and NEMA 7/9 enclosures are also available). System status is visible through a scratch-resistant polycarbonate window. Electrical terminations are protected behind a full face cover panel. Terminal access has been carefully designed for ease of installation. The microprocessor design provides comprehensive self-checking routines during start-up and during operation to provide the highest level of reliability. The control panel also provides flexibility in field wiring configurations and detection logic.

Specifications

Power Supply: EX 100.1 - 100/120 or 240 VAC at 50/60 Hz. EX200 - 115 or 230 VAC at 50/60 Hz.

Alarm Relay: Form "C" normally de-energized. Dry contacts rated 5 A at 24 VDC or 240 VAC resistive load.

Trouble/Fault Relay: Form "C" normally energized. Dry contacts rated 5 A at 24 VDC or 240 VAC resistive load.

Warning Relay: Form "C" normally energized. Dry contacts rated 1 A at 24 VDC or 0.5 A at 125 VAC resistive load.

Detection Circuit: Three detection circuits with multiple programming options. Class A or Class B wiring.

EX 100.1 EED Actuation Circuit: Capable of firing up to 8 EHRD actuators, 8 PHRD actuators, or 10 Firewolf actuators.

EX 200 EED Actuation Circuit: Capable of firing up to seventeen (17) explosive actuators.

Backup Battery: Available with 12V 12 AH, 18 AH, or 35 AH batteries.

Contact Information

For additional information, please contact one of the following locations.

IEP Technologies – United States

417-1 South Street
Marlborough, Massachusetts, USA
Tel: +1 (855) 793 8407

IEP Technologies – United Kingdom

Unit 1, Neptune Business Centre
Tewkesbury Road
Cheltenham, GL51 9FB
Tel: +44 (0) 1242 283 060

IEP Technologies - Switzerland

Roetzmattweg 105
CH-4603 Olten
Tel: +41 (0) 62 207 10 10

IEP Technologies - Germany

Kaiserswerther Str. 85c
D-40878 Ratingen
Tel: +49 (0) 2102 5889 0