EX100.1/EX200 SINGLE ZONE CONTROL PANEL

PRODUCT INFORMATION SHEET

IEP TECHNOLOGIES
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Description

The EX100.1 and EX200 Control Panels are microprocessor based units designed primarily for small to medium sized explosion protection applications. The EX100.1™ and EX200™ Control Panels provide an economical control solution for vital explosion protection applications. The EX100.1 is ATEX compliant. The EX200 control panel conforms to the requirements of NFPA 69 and is FM approved. 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.

EX100.1/EX200

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
- Suppressor 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 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, 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 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 Actuation Circuit:	Capable of firing up to 8 EHRD actuators or 8 PHRD actuators.
EX 200 EED Actuation Circuit:	Capable of firing up to 20 explosive actuators or 14 PistonFire actuators.
Backup Battery:	Available with 12V 12 AH, 18 AH, or 35 AH batteries.

Contact Information