EX8000™ Multi Zone Control Unit

Explosion Protection System Components

Advantages:

- Compatible with IEP Technologies sensors, HRD-suppressors and slam valves
- Automatic self-test function to check function standby
- Redundant electronic system
- Functional safety SIL 2
- Readable memory with date stamp
- Configuration options for various process requirements
- Free assignment of potential-free contacts in coordination with process-control
- Arming and disarming of individual plant sections
- Fault and alarm display with light diodes and text indicators, allowing easy correlation
- Built into robust standard floor or wall cabinets

Application

Industrial process vessels such as silos, filters, cyclones, mixers and dryers, in which explosive products are processed, transported and stored, are exposed to the risk of an explosion if a combustible product coincides with an ignition source and oxygen.

Description

The Multi Zone Control Unit CIE (Control and Indication Equipment) assumes both control and system verification functions. The whole electronic system is integrated on a modern and reliable board with redundant circuitry. Power supply, emergency battery and connection technology are accommodated within a cabinet.

Any signals emerging from the explosion pressure, spark, flame or temperature sensors employed are recorded, tested and evaluated by the CIE. Depending on the configuration of the explosion protection system the related protection measures are activated selectively. The monitoring and activation lines are continuously checked with regard to wire breakage, earth fault and short circuit. In addition, an automatic self-test system ensures that all important functions of the CIE are monitored electronically.

In case of power failure the emergency battery automatically takes over without interruption. Power can be sustained for approximately 4 hours.

All fault and alarm messages are displayed by both light emitting diodes (LED) and a liquid crystal display (LCD) and can be forwarded by means of potential-free contacts.

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Specifications

Input Voltage: 230 VAC, 50/60 Hz.
Option: 110 VAC, 50/60 Hz
Emergency Power Supply: 2x12 V, 15 AH.
Power failure bridging time: 4h
Cabinet: Powder-coated steel cabinet wall-mounted.
Alternative: floor cabinet
Colour: grey, RAL 7035
Dimensions: 600(w) x 800(h) x 220(d)
Ambient Temperature: -10°C – +40°C
Consumption: 250 watts

Approvals

CE Type Examination Certificate according to directive 94/9/EG (ATEX 95)	
System Certification - Explosion Suppression	FSA 09 ATEX 1595 X
System certification - Explosion Isolation	FSA 09 ATEX 1596 X FSA 09 ATEX 1597 X
Protection category	IP54

Contact Information

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