

EX8000™

MULTI ZONE CONTROL UNIT



PRODUCT INFORMATION SHEET

Description

The EX8000™ Multi Zone Control Unit is responsible for the protection system control and status verification functions. The electronic system is integrated on a modern and reliable board with redundant circuitry for all safety functions. Power supply, emergency battery and connection technology are all accommodated within the cabinet.

All signals from the explosion pressure, spark, flame or temperature sensors employed in the protection system are recorded, tested and evaluated by the EX8000. The monitoring and activation circuits are continuously checked with regard to wire breakage, earth fault and short circuit. In addition, an automatic self-test system ensures that all safety relevant functions of the EX8000 are monitored. In case of power failure the emergency battery automatically takes over without interruption and can be sustained from 4 hours to 24 hours, depending on the application requirement.

All fault and alarm messages are displayed by both light emitting diodes (LED) and the EX8000 front panel display which can also be forwarded by means of potential-free contacts.

The EX8000 offers maximum flexibility to users of multi actuation zone applications through its modular approach. Depending on the configuration of the explosion protection system the related protection measures are activated selectively. The EX8000 base unit allows control and indication of four detection and activation circuits (zones). This can be scaled-up depending on the needs of the application, up to 16 zones within one standard wall mount unit. The floor mounted cabinet version can handle even up to 32 zones. These features make the EX8000 the most comprehensive solution on the market.

EX8000™



Advantages

- Compatible with IEP Technologies sensors, HRD-suppressors and slam valves
- Automatic self-test function to check function standby
- Redundant electronic system
- Functional safety to 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. The EX8000 control unit offers an economical solution to protect these processes with a high level of safety and reliability.

Specifications

Input Voltage:	110-230 VAC, 50/60 Hz.
Emergency Power Supply:	2x12 V, 15 AH. Option 2x35 AH batteries Power failure bridging time: 4hrs-24hrs
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

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