



# ZAM Plus Rupture Disk Alarm Monitors

The ZAM series Alarm Monitor is a surface mounted monitor designed to remotely detect the condition of a rupture disk in service. Used in conjunction with the ZOOK ZENSOR®, BA, RDI, BI or similar devices, it will immediately warn the operator of a ruptured disk. The alarm system uses a normally closed electrical circuit. When the disk ruptures, it breaks the circuit, triggering the alarm.

The ZOOK ZAM alarm system is capable of detecting a ruptured disk condition in applications involving highly electrically conductive fluids. Contact ZOOK for more information regarding this type of application.



ZAM2  
2 Channel Monitor



ZAM4  
4 Channel Monitor

## Features

- Intrinsically safe output for Class I, II, and III, Division 1, Groups A, B, C, D, E, F, and G hazardous locations.
- Utilizes FM approved,  $\text{Ex}$ ,  $\text{C}\text{E}$ , and  $\text{S}$ , compliant I.S. barrier.
- Enclosure: NEMA Type 12, constructed of 14 gauge steel with continuously welded seams and oil resistant seals.
- Provides an audio/visual signal and an output relay for each channel. Channel will automatically reset once the burst indicating device is replaced or reset.
- Audio alarm can be silenced with push button switch.
- Contains front panel push buttons for testing each channel. This function can also be performed remotely.
- Field replaceable I.S. barrier module and power supply.



ZAM6  
6 Channel Monitor



ZAM8  
8 Channel Monitor

## Specifications:

**Intrinsically safe sensing signal level:**  
10.5 VDC @ 13 mA max.

**Input Voltage:** 100–240 VAC @ 50/60Hz

**Monitor Sensing Level:** Open (Ruptured)

**Output Relay Contacts:** 1NO & 1NC (DPST)  
rated 4 Amps, 126.5 VAC (Resistive)

**Operating Temperature:** -4°F to + 140°F

## Dimensions:

ZAM2 & ZAM4: 12" H x 10" W x 8" D

ZAM6 & ZAM8: 14" H x 12" W x 8" D

# Rupture Disk Monitor Technical Information

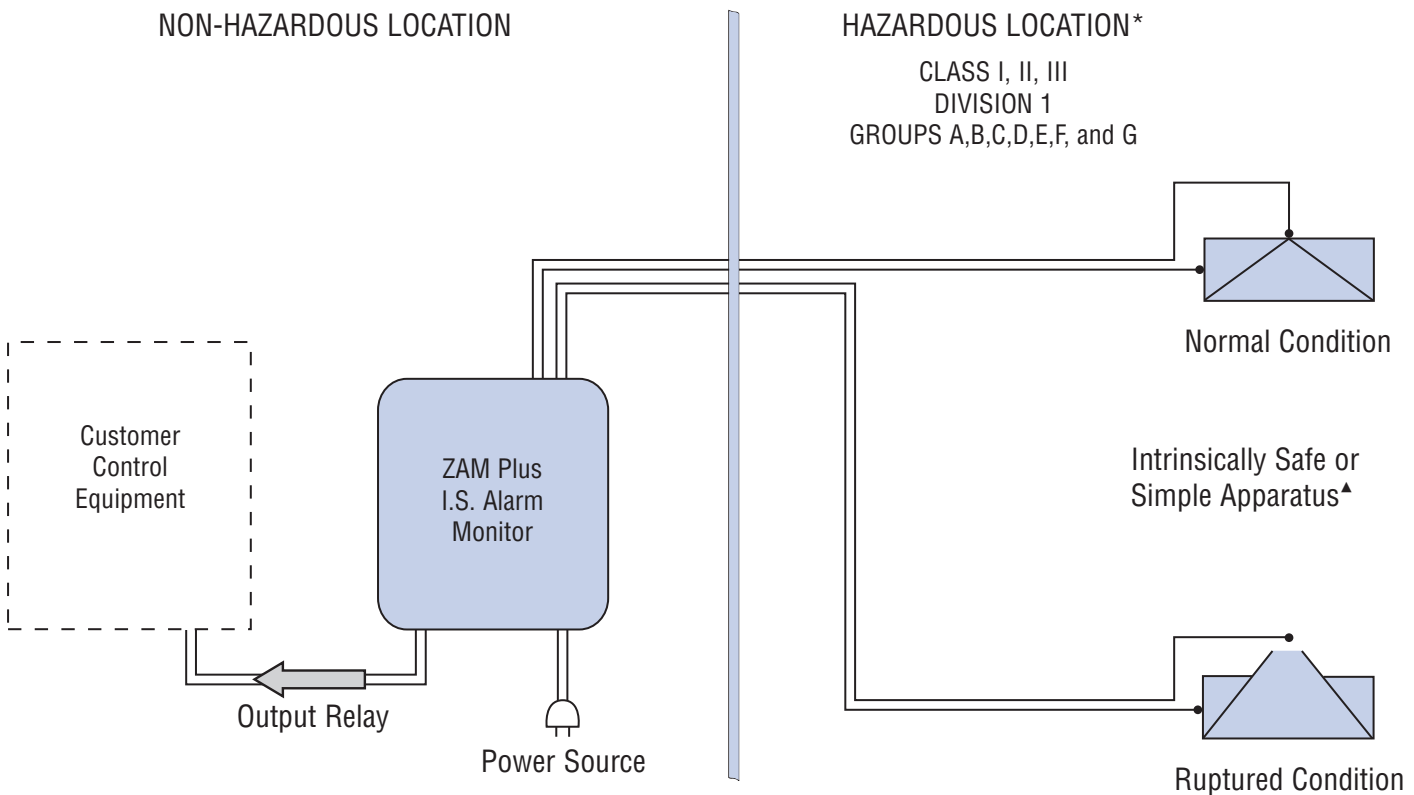
Under normal conditions, the alarm system is in a normally closed state. When the disk ruptures due to an over pressure condition, separation of the membrane (pressure sensing portion of the rupture disk) occurs – breaking the alarm electrical circuit.

The monitor wired to the burst indicating device will be activated providing immediate local or remote warning of a ruptured disk. The ZAM monitor allows output to control pumps, valves, and other equipment which may be activated to control or shutdown a process.

The ZAM Alarm Monitor can be used with the following burst indicating devices: ZENSOR®, BA, RDI, BI or similar devices. It will immediately warn the operator of a ruptured disk.

Contact ZOOK for compatibility with other manufacturers indication devices.

**Note:** A rupture disk with burst indicating device is considered a simple device, therefore, approval is not required. Installation must be in accordance with ANSI/ISA RP12.6 and the NEC (ANSI/NFPA 70)



\*Contact ZOOK for information about mounting the ZAM Plus Alarm Monitor in hazardous locations.

^Hazardous location equipment must be NEC compliant or simple apparatus.



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