



GENERAL MONITORS
Protection for life.

SYSTEMS

Model ZN002A

Zone Control Module



Features

- Multiple Zones
- Independent Voting
- Microprocessor-based Electronics
- Live Insertion/Removal
- Card Test
- LED Test

Benefits

- Three independent zones monitoring up to 24 gas and flame detection modules can be achieved using a single ZN002A
- Each zone has independent voting, 1 or 2 votes per zone
- Monitors fault conditions, sensor inputs, and provides outputs in the form of display codes, analog signal, relay contact and open collector activations
- Module can be removed or inserted into a chassis with power applied without damage
- Tests the input logic of every channel into each zone and is initiated by the operator
- Tests the integrity of each LED and each segment of the digital display

Description

The ZN002A provides zoning and voting functions for three separate and independent zones of gas and/or flame detection. The outputs from this Module include:

- One open collector output with a red front panel LED for each A1 and each A2 output. There is an A1 and an A2 output associated with each zone.
- One open collector output for Fault indications with an amber front panel LED
- One green front panel LED for Ready indications

The open collector (OC) outputs from other modules are the inputs to the ZN002A. Up to eight (8) of these OC outputs from other modules may be grouped together (a zone) such that an output signal (A1) will occur when any single open collector of the group is active. A second output (A2) will occur if two or more open collectors of the same group are active. Each ZN002A consists of three such groups (zones).

When an alarm (A1 or A2) goes active, a front panel LED will flash until the ACCEPT button on the Facilities Module is pressed. The front panel LED will then change to a steady ON condition. When the alarm (A1 or A2) is reset, the front panel LED will turn OFF.

During a fault condition the Fault LED on the front panel will flash until the fault condition is accepted or corrected. If the fault is accepted, the Fault LED will stop flashing and stay ON until the fault is corrected. If the fault is corrected the Fault LED will turn OFF.



MODEL ZN002A

System Specifications

Available Chassis: 4, 8 or 16 channel rack or panel mounted

Channels Per Module: One channel of chassis space per Module
Provides up to 24 channels in 3 zones per Module

Electrical Classification: General purpose, non-hazardous locations

Warranty: Two Years

Approvals: CSA, FM

Environmental Specifications

Temperature Range: 0°F to 150°F
(-18°C to 66°C)

Storage Temperature Range: -40°F to 150°F
(-40°C to 66°C)

Humidity: 5 to 100% RH, non-condensing

Electrical Specifications

Operating Power: 24 VDC nominal @125 mA
20 to 35 VDC range
≤18 VDC produces Fault

Open Collector Output Rating: 100 mA max., 35 VDC max.

Mechanical Specifications

Length: 9.9" (251mm)

Height: 6.825" (173mm)

Width: 1" (25mm)

Weight: 11.2 oz. (318 grams)

Standard Configuration: ZN002A-1-1-1
Low activation, latch alarm, non-latch warn, de-energized

Specifications subject to change without notice.

Represented by:

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