

# Detcon Model 840-N7

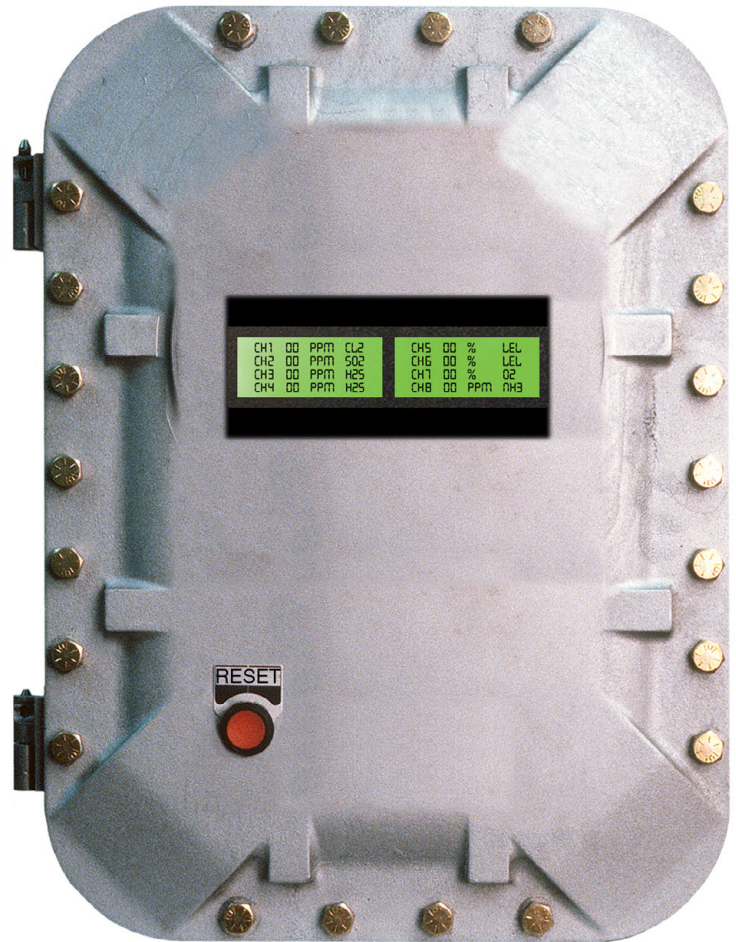
## Gas Detection Alarm and Control System

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### Description

Detcon Model 840-N4X is an eight channel gas detection alarm and control system housed in a NEMA 7 explosion proof enclosure. The system design uses a microprocessor based control card to supervise and display the condition of virtually any type of field mounted gas detection sensor with either a 4-20mA or serial RS-485 output. Sensor types include combustible gas, oxygen deficiency, and more than 40 toxic compounds. The controller is completely user programmable. A backlit alpha/numeric display provides indication of gas type and current reading in normal operation. The alpha/numeric display is also used to provide simple menu driven operator interface during system programming including selection of gas type, range of sensitivity, alarm level adjustment and alarm relay configuration. Some of the unique features of the Model 840 are logging of calibration, 8-hour time weighted average (TWA), peak exposure level (PEL), and alarm incident history. Logged data is date/time stamped and can be displayed on the 4-line LCD or the data can be downloaded to a PC.



### Specifications

#### Electrical Classification

NEMA 7 Explosion Proof

#### Dimensions

13.375"W x 13.375"H x 10.5"D

#### Power Input

117/220 VAC and/or  
11.5 to 28 VDC

#### Power Consumption

~5 watts.

#### Indicators

Alarm Condition LEDs  
Backlit Alpha/Numeric LCD

#### Input

Analog 4-20 mA DC  
or RS-485 Serial

#### Outputs

RS-485 Serial  
4 Alarm Relays (rated 5 amp)  
Alarm 1, 2, 3, & Fault

#### Operating Temperature Range

-40°C to +80°C; -40°F to +175°F

#### Warranty

One year

### Features

- ☞ NEMA 7 Explosion Proof Enclosure
- ☞ Sensor Input Options: 4-20mA or Serial RS-485
- ☞ Completely User/Field Programmable
- ☞ 3 Adjustable Alarm Level Relays, 1 Fault Condition Relay
- ☞ Alarm Inhibit During Calibration with Automatic Timeout
- ☞ Alarm Silence Configuration Option
- ☞ Addressable RS-485 Serial Communication
- ☞ Calibration History and Alarm Event Logging

### Options

- ☞ Integral 1-hour Stand-by Battery
- ☞ 4-20 mA Output Module

### Order Guide

- ☞ Order by part number 957-080810-000

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