

GAS DETECTION SYSTEM

A. General:

The Gas monitoring system shall continuously measure and display gas concentration and provide alarms when preset limits are exceeded. The gas detection system shall consist of carbon monoxide and nitrogen dioxide gas sensors/ transmitters. Transmitters will send signal to a dual channel controller.

B. System Components:

1. P2065-D Dual Channel Controller

Dual channel gas controller shall be a microprocessor based central processing and display system. A keypad shall be used for entering data, selecting the system functions, and programming remote sensor. The system shall use password protection, entered via the keypad, to prevent unauthorized access to specific functions.

The system shall continuously detect, monitor and display concentrations of carbon monoxide and nitrogen dioxide gas. Two (2) graphic LCD displays shall be used to display system and sensor information to the user. One (1) DPDT relay contacts (240VAC @ 10 A) shall be provided and used as Alarm Level #1 is achieved by either gas. Each sensor shall have a bi-colored LED – green for zero calibration gas, red for span calibration gas. All alarm set points shall be field adjustable over the full range of sensor. Controller shall have 4 to 20 mA output signal. Power supply shall be 120 VAC

The enclosure shall be the NEMA 4X type with front facing channels. Mounting brackets for the purpose of attaching the unit to a flat surface shall be provided.

2. Remote Sensors / Transmitters

C. Manufacturer and Model

1. Conspec Controls Inc. 1-800-487-8450
 - a) Series P2065-D Dual Channel Controller