



A. System Components:

911154 Ventilation Fan Controller, as manufactured by Conspec Controls, Inc. The CO fan controller shall be a microprocessor based processing system with self-testing diagnostics. The CO system operates on 24VAC. The system shall continuously detect, monitor, and display concentrations of carbon monoxide gas. A (3) three digit graphic LCD display shall be used to display the system and sensor information to the user. Two (2) SPDT relays (30VDC @ 2 A) shall be provided and open in the event of a CO concentration in excess of 35ppm (wired failsafe). An 85db alarm horn shall also be provided. The enclosure shall be NEMA4X weatherproof and nonmetallic. Two (2) front facing LED's shall be provided labeled: "Status" and "Test" shall indicate the current status of the monitor. A 4" integrated conduit plate for the purpose of attaching the unit to a flat surface shall be provided. Carbon Monoxide sensor shall be electrochemical type. The sensor shall have a range of 0-500ppm. Unit shall automatically compensate for temperature and humidity over a range of -20 to 50 degree C, and 0 to 90% relative humidity. CO controller shall also include a LA City Approval Label located on the front panel. A vandal-proof tamper resistant screw shall lock the front panel.

B. System Operations:

Fan Relay

When activated, the Fan relay will be maintained for a minimum amount of time before being allowed to reset, regardless of the CO concentration. This prevents undesired cycling of the exhaust fan. The Run Timer is set to 5 minutes, and starts once the CO concentration falls below 35 ppm.

Activated By:

1. Power Up Sequence, **OR**
2. CO concentration above 50 ppm, **OR**
3. Sensor Fail detection, **OR**
4. Loss of Power

Reset By:

1. CO concentration below 35 ppm, **AND**
2. Sensor Normal, **AND**
3. Run Timer elapsed

Alarm Relay

Activation and reset of the Alarm relay is described below.

Activated By:

1. CO concentration above 200 ppm, **OR**
2. CO concentration above 150 ppm for 15-minutes, **OR**
3. Sensor Fail detection, **OR**
4. Loss of Power

CO controller shall have a (1) one-year warranty (parts & labor) from date of shipment from factory.

C. Manufacturer and Model

1. Conspec Controls Inc. 1-800-487-8450
 - a) 911154 Fan CO Ventilation Controller