



MODEL TOX-O₂/4 GUIDE SPECIFICATION FOR OXYGEN SENSOR WITH RELAY OUTPUTS

Provide Toxalert model TOX-O₂/4 oxygen sensor(s) with a range of 0 to 25%, a linear 4 to 20 mA output signal, and two adjustable output relays over its range. The sensor shall be housed in an industrial style explosion proof housing. The sensing element shall be electro chemical diffusion barrier type and be designed for ten (10) year element life. Electro chemical cells with a three year or less expected life are not acceptable. The sensor shall be 24 vdc powered and its 4 to 20 mA output shall be directly proportional to the percent of oxygen being detected. The warning relay and alarm relay shall be Form C contacts and the relay setpoints shall be field adjustable without calibration gas. Relay contacts shall be rated for 1 amp at 24 vdc. If the sensor should fail it shall drive its output signal to zero indicating zero percent oxygen and energizing both output relays.

The oxygen sensor shall have the following diagnostic light emitting diodes (LED's):

- 1) Warning relay energized
- 2) Alarm relay energized
- 3) Power
- 4) Sensor failure
- 5) Loop Up (LED varies in intensity indicating 4 to 20mA loop current to controller).

Sensor shall have volt meter terminals on face of sensor to indicate percent oxygen being detected.