



## **MODEL TOX-O2/1 GUIDE SPECIFICATION FOR OXYGEN SENSOR WITH ANALOG OUTPUT**

Provide an oxygen sensor(s) with a range of 0 to 25% and a linear 4 to 20 mA output signal over its range. The sensor output shall be designed to work into a minimum of 500 OHM load. The sensor shall be housed in an industrial style explosion proof housing. The sensing element shall be electrochemical diffusion barrier type and be designed for ten (10) year element life. Electrochemical cells with a three (3) year or less expected life are not acceptable. The sensor shall be powered by low voltage and its 4 to 20 mA output shall be directly proportional to the percent of oxygen being detected. When sensor fails it shall drive its output signal to zero indicating zero percent oxygen and alarm condition.

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

- 1) Power
- 2) Sensor failure
- 3) LOOP UP (LED varies in intensity indicating 4 to 20 mA loop current to controller).

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