

FX-1500 Series III Bid Specifications

GENERAL:

The Gas Detector shall continuously monitor for dangerous gas conditions, and set an audible and visual to alert any nearby personnel, who could be injured by such a gas condition.

The detector shall have 4 alarm levels consisting of: Cell Failure, Caution Level, Warning Level, and Danger Level. Warning and Danger levels shall be factory set at OSHA levels applicable to the particular gas. The Cell Failure, Caution and Warning Levels shall automatically reset at normal conditions. The Danger Level shall be self-latching and must be cleared by a reset switch. The audible alarm shall have a silence switch. The detector shall have a self-contained remote sensor, suitable for installation in a "confined space" area. The electronics test switch shall be mounted on the remote sensor enclosure.

The detector shall be available for the following gases: Chlorine, Sulfur Dioxide, Carbon Monoxide, Hydrogen Sulfide, Hydrogen Chloride, Hydrogen Cyanide, Hydrogen, Nitrogen Dioxide, Nitric Oxide, Chlorine Dioxide, Ozone and Oxygen Depletion.

The detector must be capable of running 100% duty cycle (I.E. 24hrs a day, 35 days a year) and shall require no maintenance or calibration other than periodic operation checks on a regular basis.

ELECTRONIC:

The detector shall operate on 120 or 220 volts, 50/60 AC power. Optional battery backup shall be provided by external means (such as a computer battery backup unit), so as to prevent electronics corrosion and failure, due to battery charging in an enclosed container.

The detector shall have a light emitting diode, numeric display (red), on the electronics enclosure, that indicates gas concentration in parts per million. The detector shall also have the following light emitting diode indicators: Cell Failure (blinking green), Caution (yellow), Warning (yellow), Danger (blinking red), and an audible 105 dB alarm annunciator.

The electronic and controls enclosure shall be remotely mounted, external to the room or confined space area being monitored, by the sensor, so as to allow control of the unit without having to enter the room that might contain a dangerous gas condition. The sensor enclosure, mounted in the room being monitored, shall have a blinking LED to indicate the Danger alarm condition.

The gas sensor shall be of self-contained, electrochemical design and shall not require changing, recharging, or adding of any type of electrolyte or chemical. The sensor shall not require any type of fan to provide sample air to the sensor. The sensor shall have an expected life of 10 years, except Oxygen which is 2 years.

The detector shall have the following output: a 105 dB audible alarm annunciator; Cell Failure - 1 amp SPST N.O. dry relay contact; Danger - 2 Latching 10 amp N.O. / N.C. SPDT dry relay contact; 2 user-selectable 10 amp SPDT N.O. dry relay contact (selections shall be; caution non-latching, warning non-latching, danger non-latching, & danger latching).

MECHANICAL:

The detector electronics shall be isolated in a NEMA 4X (gasketed) enclosure to prevent damage to the electronics by gas entrance, and shall have a door with stainless steel latch and Lexan window to allow viewing of the display indicators.

The gas sensor shall be mounted in the bottom of its enclosure facing down and shall have an o-ring seal where it goes through the enclosure wall.

The detector shall be manufactured by Foxcroft Equipment & Service Co., Inc. of Glen Moore, PA USA.



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