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SPECIFICATION FOR CARBON MONOXIDE DETECTOR AND CONTROLLER

A specific Carbon Monoxide (CO) Detector/Controller shall be provided. The purpose of this sensor is to provide detection, alarm and automatic exhaust fan control.

Sensing element shall be of solid state type. Estimated life of the sensing element shall be 7-10 years. Element shall be of the metal oxide semi-conductor type to measure the concentration of CO as it builds up on the sensing element. The signal from the sensing element shall be measured by a built-in microprocessor, pre-programmed with a TWA/TLV (Time Weighted Average / Threshold Limit Value) to energize fan and alarm relays. The TWA/TLV shall be set at 35PPM of CO averaged over 5 minutes for fan relay activation and 100PPM after 30 minutes or 200PPM after 10 minutes for alarm relay activation.

Unit shall be supervised and have a self test cycle of 2.5 minutes. Unit shall have the ability to operate fans for a minimum of 2.5 minutes when main power is restored after a power failure. Unit shall have internal continuous supervision and upon detecting a malfunction, the fan shall be activated to ensure a safe environment.

A tri-color LED shall be incorporated in the fascia of the detector housing and indicate the following: Green - Normal operation, no relay activation

Amber - Fan relay is activated

Red - Fan and alarm relays are activated

Unit shall incorporate a self test switch which when activated performs operational testing of the detector and system. Unit shall also have the capability of being field calibratable, using optional Field Calibration Kit.

Unit shall mount on and become the cover of a standard 4" X 4" junction box and be powered by 12 to 24 VAC or VDC.

Unit shall be Macurco model CM-21A, Manufactured by Macurco, 6555 S. Kenton Street, # 304, Centennial, Colorado 80111. Ph: (303) 781-4062