



## FOX MODEL 10A FLOWMETER PROCUREMENT SPECIFICATION

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1. The flowmeter shall operate on the Constant Delta Temperature (Constant Delta T) thermal mass principal. The sensing elements shall consist of two platinum RTD's. The sensor's heated element shall operate a constant temperature of 100°F above the gas temperature.
2. The flowmeter shall have a built-in display of flow rate, flow total, and elapse time. The readout shall utilize a LED display consisting of four characters. One 4 to 20mA output will be included.
3. A 4-key keypad will be employed for user programming. Input parameters shall be protected by use of a pin jumper. Nonvolatile memory will retain totalizer and user parameters for up to seven (7) years.
4. The flowmeter shall have a built-in microprocessor allowing field programmability of the 4 mA setting, 20 mA setting, pipe/duct area and alarm settings.
5. The flowmeter shall measure gas flows over a range of 0 - 32,000 standard feet per minute. Sensor response time shall be 0.9 seconds for a one (1) Sigma change in velocity.
6. Accuracy shall be  $\pm 1.0$  percent of reading plus 0.2 percent of full scale and repeatability  $\pm 0.2$  percent of full scale over an operating temperature range of -40°F to +250°F.
7. All wetted parts are to be 316 SS utilizing an all welded design. Other alloys will optionally be available.
8. All electronics to be mounted in a single NEMA 4X enclosure. Input power will be 24 VDC.
9. The flowmeter will be FM and CSA approved for for Class I, Division 1, Groups B, C, and D, T3C hazardous locations.
10. The manufacturer shall provide an NIST traceable calibration certificate for the instrument.
11. The Instrument will be the Model 10A manufactured by Fox Thermal Instruments, Inc., 399 Reservation Road, Marina, CA 93933 Phone: 831-384-4300, Fax: 831-384-4312, Email: sales@foxthermalinstruments.com, Website: www.foxthermalinstruments.com