

## **ENGINEER'S SPECIFICATION**

## **EPG Flow Meter System**

Furnish one EPG Companies Inc. flow meter system to register liquid flow rate and to record total flow.

The metering system shall operate from a 115 Volt, 60 Hertz single phase power supply.

### **SENSOR FEATURES**

- \* Dual Magnets: Sensor shall utilize a dual magnet drum design to assure unimpeded operation of the paddlewheel.
- \* Special Mount: The sensor shall be supplied in flow spool pieces sized for specified flow rate range to maximize system accuracy.
- \* Sensor: Shall be linear with a repeatability factor of  $\pm 5\%$ .
- \* Line sizes: Available in ¾" to 14" diameter pipes for recommended flow rates of 2.1 to 1,848.4 gpm.
- \* Flow Velocity: For best results flow velocity for any given pipe size must be between 1.5 and 27 fps.

### **FLOW METER FEATURES**

- \* Flow Totalizer: Meter shall include a bi-directional, eight digit flow rate display and eight digit flow totalizer display.
- \* Programmability: Meter shall be front panel programmable for ease of calibration to line size and change in units.
- \* Non-Volatile Memory: Meter shall include a non-volatile memory to retain programmed settings and totalized flow when power is disconnected.
- \* LCD Display: Meter shall include a two line eight digit, ¾" high display of flow rate and totalized flow.
- \* Menu Driven Programming: Meter programming shall be menu driven to simplify setup.
- \* Temperature Range: Shall maintain full function in temperatures between 0° and 55° C. Low temperature range can be extended with optional meter heater.
- \* Scaling: Flow meter scale is available in a variety of engineering units.
- \* Options are available to meet specific needs.

### **SYSTEM LOGIC AND FUNCTION**

This system is designed to display flow rate and totalized flow in specified units, or can be used as a controller to limit discharged amount per day.