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EPG Quick Tip

A Guide To Flow Sensor Installation

One of the most important considerations in working with flow meters is the way in which the sensor is installed. The specifications supplied by manufacturers are based on test data taken from textbook installations. The accuracy and repeatability achieved with the sensor will be in part dependent upon its installation.



With that in mind, here are some basic suggestions to consider when installing a flow meter in order to meet your performance expectations:

Pipe Sizing - Sensors should be installed based on the minimum velocity rather than the discharge or force main pipe size.

Upstream Flow Disturbances - EPG recommends placement to be a minimum of 10 pipe diameters upstream of the flow sensor.

Downstream Flow Disturbances - EPG recommends placement a minimum of five pipe diameters downstream of the flow sensor.

[Click For For More Tips on Installation](#)

Questions? Call EPG at 1-800-443-7426 for more information.

EPG Product Highlight

FMSA Liquid Flow Monitoring System

EPG's Stand Alone Flow Meter Liquid Flow Monitoring System provides continuous monitoring and recording of liquid flow rate and total flow of groundwater, leachate and process water. The system is available in a wide variety of user friendly configurations.

The flow meter features simple to program rate & totalizer functionality with an easy to read 6 digit LED display. The end user can easily view rate, total and grand total. The system runs on 115 Volt, 60 Hertz, single phase power. The flow meter retains full function in temperatures between 0° and 55° C. Low temperature range can be extended with the optional panel heater.



Standard Features

- UL listed
- Digital LED display
- Factory tested
- Non-volatile memory
- Field programmable

Options

- Truck loading batch control
- Data logging
- Remote monitoring
- Panel Heater

The Flow Meter employed in the FMSA Stand-Alone has the flexibility to work with a variety of flow sensors:

Paddlewheel - Flowing liquid turns a paddlewheel, which sends out a pulse proportionate to flow rate. It can be used with pipe sizes from 1" to 14" with flow rates of 2 to 1,850 GPM.

Magnetic - The magnetic sensor measures flow by passing the liquid through a magnetic field and measuring the voltage produced. Since the induced voltage is proportional to the average flow velocity and the inside diameter of the pipe is known, the volumetric flow rate can be calculated. It can be used with any pipe size.

Ultrasonic - This sensor is attached to the outside of the pipe. It operates by transmitting a high frequency signal off of solids entrained in the liquid and reading the return signal. The detected frequency shift is proportional to the liquid velocity (Doppler Effect). It can be used with any pipe size.

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Industry Events

Aug 26-29 Wyoming Solid Waste & Recycling Conf.
 Sheridan, WY (The Reich Co. Exhibiting)

September 10-12 North Dakota Solid Waste & Recycling Assoc.
 Bismarck, ND (EPG Exhibiting)

September 10-12 Nebraska SWANA Fall Conference
 Hastings, NE (The Reich Co. Exhibiting)

Oct 01-02 Colorado SWANA Conference
 Colorado Springs, CO (The Reich Co. Exhibiting)

Oct 01-03 Kansas SWANA Solid Waste Mgmt. Conf.
 Mulvane, KS (The Reich Co. Exhibiting)

Oct 21-24 2019 WASTECON
 Phoenix, AZ (EPG / Viridian America Exhibiting)

info@epgco.com | 800-443-7426 | www.epgco.com



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