

In this edition of the **EPG Connection** newsletter:

- **EPG Quick Tip - Flow Sensor Installation Basics**
- **Product Highlight - Stand Alone Flow Monitoring Systems**
- **Event Calendar - Complete List of Fall and Winter Conferences**

Thanks for reading and have a great day!

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 flow sensor is installed. The accuracy and repeatability achieved with the flow sensor will, in part, be dependent upon its installation.

With that in mind, here are some basic suggestions to consider when installing a paddlewheel flow sensor 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 sensor placement a minimum of 10 pipe diameters of undisturbed straight pipe upstream of the flow sensor.

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



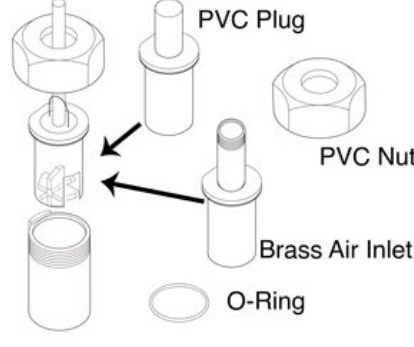
EPG's custom-made Paddlewheel Flow Sensor Spools are available in PVC and Stainless Steel (304SS/316SS, SCH40/SCH80) with flanged, threaded, plain, straight and elbow connections to accommodate most applications.

[Complete Guide To Flow Sensor Installation](#)

Only From EPG

Exclusively from EPG

Ask EPG about our paddlewheel flow sensor winterizing & maintenance kits. Components include a plug to seal the flow spool when the paddlewheel is removed for repair or winterizing. An air inlet can be installed to assist in clean-out. These are direct fits for EPG's "EP" Series Paddlewheel Flow Sensors and are only available from EPG!



Contact EPG at info@epgco.com or call us at **1-800-443-7426** for more information.

EPG Product Highlight

FMSA Flow Monitoring Stand Alone

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.

FCSA Flow Controller

The EPG Flow Controller (FCSA) System provides batch volume control of liquids. This system operates by keying in the amount of desired liquid to be pumped. The controller will count up to the input amount and then stop a pump or close a valve.



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

[Learn More](#)

EPG Flow Meters



EPG's **FMK-400 Flow Meter** employed in the FMSA Stand-Alone has the flexibility to work with a variety of flow sensors and is an excellent addition or replacement for new and existing control panels.



For even more control, EPG's **OCS-Operator Control Station** offers flow rate and totalizer, level - pump on/off, elapsed runtime, cycle counter, temp, and alarms. Can be programmed for remote access.

EPG Flow Sensors

Each of the meters above function well with many common flow sensor types used in the field:

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

Mag Meters - The Electromagnetic Flow Meter 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 Flow Meters - 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.

*If you have any questions about the products and solutions listed above, please call EPG at **1-800-443-7426**.*

Upcoming Events

EPG will have representation at the following SWANA and industry related events:



Sep 9-11 Georgia Fall Conference
 Jekyll Island, GA (The Reich Co. Exhibiting)

Sep 9-11 SDSWMA Conference and Trade Show
 Pierre, SD (EPG Exhibiting)

Sep 21-23 Colorado Rocky Mountain SWANA Chapter Fall Conf.
 Golden, CO (The Reich Co. Exhibiting)

Sep 22-24 North Dakota NDSWRA/SWANA, Fall Conference
 Pierre, SD (EPG Exhibiting)

Sep 28-30 Sunflower Kansas SWANA Chapter Conference
 Manhattan, KS (The Reich Co. Exhibiting)

Oct 5-7 Iowa Recycling & Solid Waste Management Conference
 Davenport, IA (EPG Exhibiting)

Oct 13-14 MN Water Resource Conference
 St. Paul, MN (EPG Exhibiting)

Oct 13-15 Mississippi Magnolia Chapter SWANA Fall Conference
 Natchez, MS (The Reich Co. Exhibiting)

Nov 2-4 Alabama SWANA Fall Forum
 Location: Huntsville, AL (The Reich Co. Exhibiting)

Nov 2-4 Nebraska SWANA Joint Conference
 Kearney, NE (The Reich Co Exhibiting)

Feb 24-26 WI Integrated Resource Mgmt. Conference
 Kearney, NE (EPG Exhibiting)

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