# The EPG Connection
*Your Resource for Landfill, Environmental, and Industrial Solutions!*

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

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- **Event Calendar -** Mississippi, Missouri, and Wyoming 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.

**Complete Guide To Flow Sensor Installation**

## 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 -** 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.

*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:

**May 25-27 MsSWANA Magnolia Chapter Conference**
Biloxi, MS (The Reich Co. Exhibiting)
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**Jul 11-13 Missouri Waste Control Coalition Conference**
Ozark Beach, MO (The Reich Co. Exhibiting)
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**Aug 16-18 Wyoming Solid Waste & Recycling Assoc. Conference**
Saratoga, WY (The Reich Co. Exhibiting)