

## *Bubbler Level Sensors and Control Systems*



It's essential to understand that the term "bubbler" is NOT the entire level control system traditionally used in industrial plants and municipal water applications to manage level. This is very important to understand. The "bubbler" is a level sensing technique or device that can be used in the same way you would choose an ultrasonic, laser, direct contact pressure sensors, probes and even load cells. Each application has a "best choice". In many applications the "bubbler" is it. Many times it is the ONLY choice. Unfortunately, before solid state sensors and controllers were available the mechanical gauges, flow controls and regulators performed poorly and provided unreliable operation. The problem was NOT the "bubbler technique" for sensing level but the **old fashioned mechanical devices** that surrounded and support the bubbler.

DistaView has eliminated all the mechanical components and provides a simple, streamlined level sensing system. No electrical or moving parts contact the liquid making it ideal for fluids that have contaminants, foam, extreme temperature, corrosive properties, turbulent liquid action, explosive materials, high viscosity and slurry mixtures. It converts the back pressure or tank level into a standard, solid state, 4-20mA process signal. The process signal is sent to a DistaView controller, existing PLC or central computer system. It's simple, reliable and free of all the outdated components and mechanical burden that has plagued users in the past. The solid state accuracy and reliability available in the DistaView controllers along with the Stand Alone Bubbler will provide you peace of mind. We think the solution is easy to see.

### *Plant Air - Bubbler*

If compressed air is available, this model will automatically step down the pressure and flow. There is no need to calibrate or monitor the air supply. Additionally, this design prohibits anyone from making changes or "tweaking" the unit. Our design results in consistent, reliable and long term performance. DistaView can combine our bubbler with any of our process controllers to provide a complete control system for the application. Also, our bubbler can be retrofitted to most existing controllers when a mechanical pressure switch bubbler needs replacing. See roster under "Complete Bubbler Systems" below for more information.

### *NO Plant Air - Stand Alone Bubbler*

When plant air is unavailable, unreliable or uneconomical to bring to the application the Stand Alone Bubbler is ideal. This model has the same performance features as the Plant Air Bubbler PLUS its own internal air supply. It is just a matter of connecting a power supply (120 VAC, 220 VAC, 24 VAC or 12 VAC) and mounting the bubbler pipe in the tank.

## [Complete Bubbler Systems with multiple control relays and numeric display](#)

LiquaVision Bubbler System - Single On/Off Pump & Two Alarms, Bulletin DV602B

TwoView Bubbler System - Lead/Lag Control & Two Alarms, Bulletin DV301B

LevelAir Bubbler System - Internal Air Supply and Control Relays, Bulletin DV201B

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