

## UltraSonic Flow Meter Measures Chemical Feed, Providing Solutions In Municipal Water & Wastewater Treatment Applications

Blue-White's® Sonic-Pro® MS6 Ultrasonic Chemical Feed Flow Meter is an innovative addition to flow meter offerings in the water and wastewater treatment industries.

Accurately monitoring the amount of chemical being dosed into the system is crucial to ensure effective water and wastewater treatment. An overdose or underdose of chemical can adversely affect the quality of the treated water and leads to wasted chemical, which has a financial impact.

The MS6 Flow Meter uses transit time ultrasonic technology to offer a broad flow range. This technology provides an immediate solution to a problem the industry has struggled with for years.

Industry professionals not only require an instrument that monitors flow rate, but it also needs to be extremely accurate. The MS6 satisfies both requirements. It has measurable flowrates down to 10 milliliters per minute (0.15 gallons per hour) and up to 10,000 milliliters per minute (158.5 gallons per hour). Blue-White's MS6 flow meter offers one of the lowest flowrates available.

Because the Sonic-Pro provides the necessary capabilities, as well as the desired features for water treatment plants, while also being very cost effective, it's an excellent alternative to electromagnetic flow meters for monitoring flow.

Features of the MS6 include a 4-20 mA output, frequency output, and high and low flow setpoints that can be utilized for no flow alarms. In addition, the flow meter has numerous system warning functions such as, air bubble or empty pipe problems which are crucial to operations.



Alarming a no flow condition is critical at treatment plants. No flow conditions can indicate there is a block in the chemical line or that the chemical tank is empty. While chemical controllers can provide this feedback, it takes time for the system to register a large drop in PH, and for the controller to signal an alarm. The MS6 communicates these problems instantaneously with the SCADA control system. This capability helps ensure minimal down time and loss of production at the plant.

With the high accuracy and functionality of the Sonic-Pro MS6 flow meter, plant operators and SCADA personnel will be provided feedback to optimize production. While Blue-White Industries offers a broad range of dosing pumps, the MS6 excels with both Blue-White's pumps as well as those of other manufacturers.

With PVDF and PEEK wetted components, NSF 61 approval, and the necessary features to accurately monitor chemical dosing, the MS6 is a good fit for drinking water applications.

Heyward Incorporated, the leading manufacturer's representative of water and wastewater process equipment, has a branch in Charlotte, North Carolina currently using the MS6 flow meter. Previously, Heyward used a gear flow meter in a 20% cationic filter aid polymer neat feed application. Before installing the MS6 flow meter, Heyward was experiencing gear flow meter failure.



With the easy installation of the MS6, there has been no flow meter failure and the meter readings have consistently been accurate based on draw downs. All water treatment plants could benefit from the many innovative features and functions of the MS6 flowmeter.

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