



APPLICATION SPOTLIGHT

Millwork Paint Operation Visibility Using TRICOR Coriolis Flow Meters



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APPLICATION:

WindsorONE Mills is a producer of architectural wood trim that is primed using a vacuum coating process. In their process, the finished wood trim is dipped into a paint tank; excess paint is suctioned off and returned to the tank. Fresh paint is added to the tank to maintain an appropriate volume.

PRODUCT SUPPLIED:

- TRICOR TCM 028K Coriolis Mass Flow Meters
- SignalFire RANGER Cellular Transmitters

CHALLENGE:

WindsorONE has multiple paint lines at multiple plants. Observing basic tank level sensors and tracking paint purchases, they noticed that one plant was consuming more paint than another for similar board feet of product coated. This additional paint use was incurring additional costs. The processes were the same at each plant: why was one plant using more paint?

Through conversations among WindsorONE, their paint supplier, and AW-Lake, it became clear that the process WindsorONE had been using to measure paint usage was imprecise as well as inconsistent across its various plants. They needed a method of measuring their paint usage that was accurate and easy to implement at all of its plants so they had consistent metrics across their operation.

SOLUTION:

To accurately measure the water-based paint WindsorONE uses, we proposed our TRICOR TCM 028K Coriolis meter. The gearless design of

the Coriolis meter is a natural fit for water-based paint, which can easily separate and become a slurry that inhibits the moving parts of standard gear meters. We also suggested AW-Lake's demo program, which reduces risk by allowing customers to test our equipment within their process and determine whether it delivers the data and performance they need.

Their IT team was hesitant to integrate the meters onto their network for the demo, so we proposed using the SignalFire RANGER cellular gateway and cloud-based dashboard for usage tracking. The RANGER transmitters quickly attach to sensors, providing power and connecting an entire network





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of sensors to a cloud interface through the LTE-M cellular network. We delivered the Coriolis meters already attached to the RANGER transmitters, providing the WindsorONE team with a plug-and-play paint metering solution.

As part of the Flow Division of TASI Group, AW-Lake is connected to SignalFire, a leading provider of wireless telemetry solutions. This connection enables AW-Lake to design and deliver comprehensive flow measurement and control solutions that include wireless communications.



TRICOR TCM 028K



SignalFire RANGER Wireless Transmitter



SignalFire's Cloud interface offers customizable dashboards so you can view all of your most critical data the way you want it on your PC or mobile device.