

## Reduce Your Fresh Water Consumption With Turbidity Measurement of COW Water

**Condensate of Whey (COW) water doesn't need to be wasted. METTLER TOLEDO's InPro 8610i turbidity sensor can help you improve your water reclaim processes.**



### **Reuse of COW water**

Water extracted from dairy products can be reused in different ways if adequately filtered and monitored. Depending on the quality of the condensed water, it can be used either in Clean-in-Place applications, boiler feed, or in situations where there is no contact with products.

The lower the quality, the less suitable this water is for these applications and the more likely it is to go to waste. Monitoring COW water quality is therefore crucial, both for maximizing water usage and for reducing the possibility of bacteria growth in non-product pipes. The quality of the

water is directly related to the amount of suspended solids it contains, therefore COW water can be easily monitored with in-line low turbidity analyzers.

### **METTLER TOLEDO solution**

Due to the need for high performance in low turbidity measurements and hygienic design, the METTLER TOLEDO InPro 8610i in-line turbidity sensor is the ideal way of monitoring the quality of COW water.

The InPro 8610i measures turbidity by using a red LED in the sensor head as a light source and analyzing the spatial

distribution of scattered light created by the suspended particles in the liquid medium. For the particle size found in COW water the sensor's 25° angle of detection is most suitable. An additional measurement of direct light at 0° enables compensation for background color changes, light source intensity changes, and possible optical window fouling. The system's completed with an M800 transmitter. When an installed system detects a particle concentration below, for example, 5 FTU automatic switching can divert the COW water to storage tanks for reuse. If concentration exceeds this level the water can be sent to a waste purification facility.

### Smart and almost maintenance free

Because of the sensor's Intelligent Sensor Management (ISM®) technology, specifically the Plug and Measure feature, the system is ready to use as soon as the InPro 8610i is connected to the M800 transmitter, at which point all calibration data is instantly uploaded to the M800. Moreover, comprehensive diagnostic functions make it easy to establish sensor status. Other valuable features of the InPro 8610i include its sapphire windows and absence of O-rings, which combined make the sensor almost maintenance free.



**M800**

- Intuitive operation
- User management and log book
- Multi-parameter capability
- Hygienic stainless steel enclosure

► [www.mt.com/M800](http://www.mt.com/M800)



**InPro 8610i**

- Low installation costs
- Extremely accurate
- Highly reliable performance
- Very low maintenance

► [www.mt.com/InPro8600](http://www.mt.com/InPro8600)

**METTLER TOLEDO Group**  
Process Analytics

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