



Process Technology, Inc.

Process Technology, Inc Delivers Industrial Effluent Wastewater Measurement Solution

OBJECTIVE

To regulate pH and flow and improve accuracy and efficiency of wastewater monitoring data collection.

Stay in compliance and ensure instrument reliability with a cost-efficient solution, reducing downtime.

CHALLENGE

Due to the regulatory nature, readings taken multiple times a day manually and constant alarms, require a technician’s attention. Questionable flow data, and an ultrasonic level sensor that would not read below 3 gpm did not allow for collection of accurate or consistent flow data, over the flume. pH buffers and calibrations were up to date, but due to questionable age of the device and occasional data dropout, it did not meet the regulatory requirements.

APPROACH

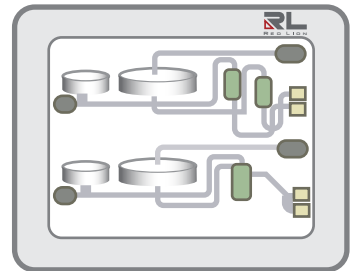
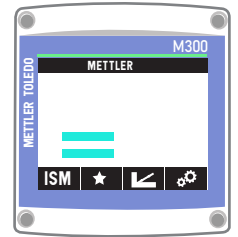
Mettler Toledo M300 with an **iSense 3250i pH probe** provides the most reliable and accurate pH capabilities in the industry, along with added digital monitoring. All calibrations can be done on the bench in a controlled environment. The sensor will tell the transmitter the approximate life of the sensor, reducing system downtime.

Siemens LU 240 for ultrasonic level (over existing flume) calculates flow and is a very cost-effective way to gather accurate level. A single device, with a local display and a 4-20mA output covers all communication bases and accuracy requirements.

Red Lion 10” Graphite HMI consolidates data gathering and calculates flow using the existing cellular, returning data to the control room. Data is logged in the HMI via SD Card, so if there is an interruption in the system control room, no data is lost.

Our industrial **water** and **wastewater** customers’ monitoring challenges are addressed with combining the technology from (3) leading instrument and technology manufacturers.

Siemens, Mettler-Toledo and **Red Lion** devices are compatible to provide a cost-effective and accurate automated flow monitoring solution, mitigating the risk involved with regulatory applications



MT and Siemens both have a local display, an HMI display, and a control room display for a complete belt and suspenders approach to compliance.