

API-Cecom Group *n'fo*

Technical & Application Note C150

Application: Monitoring level of chemical in tank
Type Of company: Public Utility—Groundwater Treatment
Location: Texas

Problem: The customer is a public utility that uses chloride to test for fecal contamination. Chloride is a useful and reliable chemical indicator for river/groundwater fecal contamination, as chloride is a non-reactive solute and ubiquitous to sewage and potable water. Many water regulating companies around the world utilize chloride to check the contamination levels of the rivers and potable water sources as fecal contamination of water sources is highly prevalent worldwide, accounting for the majority of unsafe drinking water. The customer requires a local display to monitor the level of chloride in the tanks in feet of water column and a signal to send to his PLC for data logging.

Note: For additional information on wastewater treatment see <http://en.wikipedia.org/wiki/Chloride> and http://en.wikipedia.org/wiki/Fecal_coliform

Solution: The customer purchased an DPG1000L12FTH20. The DPG1000L gives the customer both a visual indication scaled in feet of water column and a 4-20 mA signal to send to their PLC for both data logging and alarming.



DPG1000 L

Loop Powered Digital Pressure Transmitter



Benefits of API's solution:

- Accurate monitoring of vacuum
- Re-transmission to controlling device
- Rugged operation
- Use a standard product

Cecom Unique Feature




Functional Test Pushbutton

The Functional Test Pushbutton will, when pressed, output a test signal independent of the applied pressure/vacuum. This signal is adjustable from 0-100% of span by holding the Test button down and adjusting the Test potentiometer on the unit. This signal is typically preset to 50% at the factory. This feature allows the technician to temporarily inject a test or preset calibration signal into the output loop without manipulating the input signal. This signal can be used to check loop status, downstream display operation, downstream alarm operation, etc.

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