

API-Cecomp Group *n'fo*

Technical & Application Note C109

Application: Controlling water level in a tank
Type Of company: Public Utility
Location: Minnesota

Problem: The utility customer needed to automate the control process for the water level in a water tower tank. The water level was being manually maintained using an analog gauge (monitoring head pressure) and a motor controller for the pump. Their plan required that they increase the accuracy of the water level maintenance and maintain local monitoring.

Note: for additional information on this process see http://en.wikipedia.org/wiki/Water_tower

Solution: The customer purchased an F16ADA. The F16 ADA relays will automatically send a signal to the pump controller to turn the pump on and off so that the water level will be maintained at the customers predetermined set point and show an accurate head pressure as well.



F16ADA

Digital Pressure Gauge with Alarms



Benefits of API's solution:

Accurate control of water level in water tower
Lower cost due to labor savings
Use a standard product

Cecomp Unique Feature




Bi-Color Alarm LEDs

The Cecomp alarm family provides alarm status indication via a bi-color LED for each setpoint. The LED indicates **green** for a non-alarm condition and **red** for an alarm condition whether or not the unit is configured for normal acting or reverse acting. For system setup, testing, and troubleshooting, the test pushbutton can be used to toggle the state of the alarm relays. This allows them to be switched to their opposite state on demand without the need to vary the system pressure to test devices connected to the alarms

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