

API-Cecomp Group *n'fo*

Technical & Application Note C111

Application: Monitoring flow on pumps
Type Of company: Public Utility
Location: Virginia

Problem: The customer is treating water for human consumption. Water purification is the process of removing undesirable chemicals, materials, and biological contaminants from raw water. The water is treated and tested per the Environmental Protection Agency regulations.

Note: For additional information on water treatment see http://en.wikipedia.org/wiki/Water_purification

During the treatment process the customer has a requirement to use chemical injection pumps for adding chemical additives to the water prior to sending the water out to the municipal distribution system. The chemical injection pumps were getting plugged up and the proper amount of chemical additives were not being added to the water. The problem was compounded because the three different pumps fed into the same 3/4" discharge pipe making it difficult to monitor if a blockage or pump failure occurred.

Solution: The customer purchased a F16ADA100PSIG to monitor and alarm the combined pressure on the discharge pipe from the pumps. If a pump problem like a blocked line occurs the pressure would drop signifying a problem. The customer used the low alarm contact to actuate a remote alarm light and sound a horn to notify the operator that there was a pump problem.



[F16ADA](#)

Digital Pressure Gauge with Alarms



Benefits of API's solution:

Accurate monitoring of pump operation
Very cost effective
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.

To find your local representative:

www.api-usa.com/api_rep_map.php

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Where People Answer The Phone
www.api-usa.com
800-942-0315



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