

Monitor flow through water filtration systems

APPLICATION C214

The most common treatment process for bottled water is to use a filtration system so that the water will contain fewer total dissolved solids than tap water; i.e. it will be more “pure.” The water is “sucked” through the filter, which traps any microorganisms or contaminants. Before the filtering systems can be shipped to the end users, an operational test of the system must be performed. A test stand with the installed filter system and receiving “pure” water from an external filter is used for the operational test and the results are logged by a DCS system.

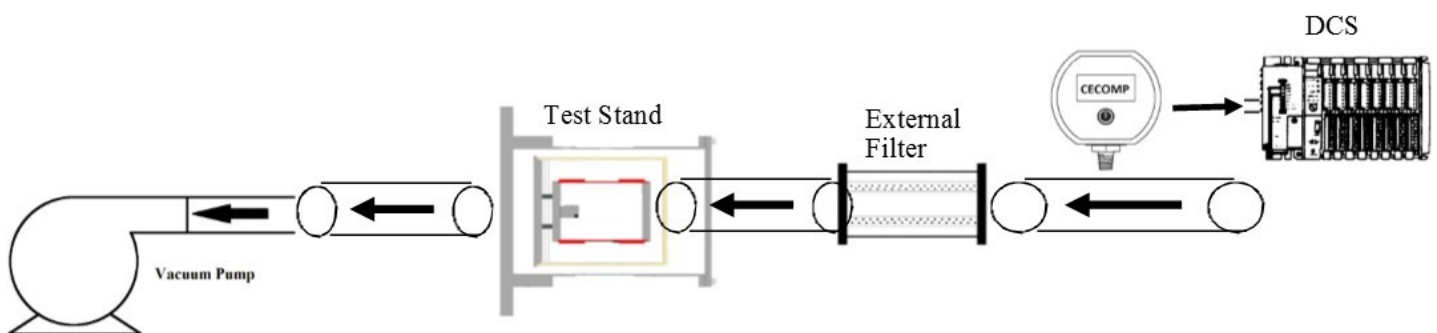
Type of Company: [Manufacturer, Water Filtration Systems](#)

Location: [Wisconsin](#)



The Engineering Issue

- The engineer is required to monitor and record the flow (pressure) through the external filtration system for the test stand during the operational test.
- A rugged and accurate digital gauge with an output that can be sent to the DCS is required for the operational test.



The engineer used a Cecomp F16DR which provides an accurate visual indication as well as a 4-20 mA signal for the analog input card on the DCS. The ruggedness of the gauge ensures that calibration is maintained even in harsh conditions.

Problem. Solved.