

# Monitor flow through water filtering systems

## APPLICATION C196

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

Location: [Wisconsin](#)

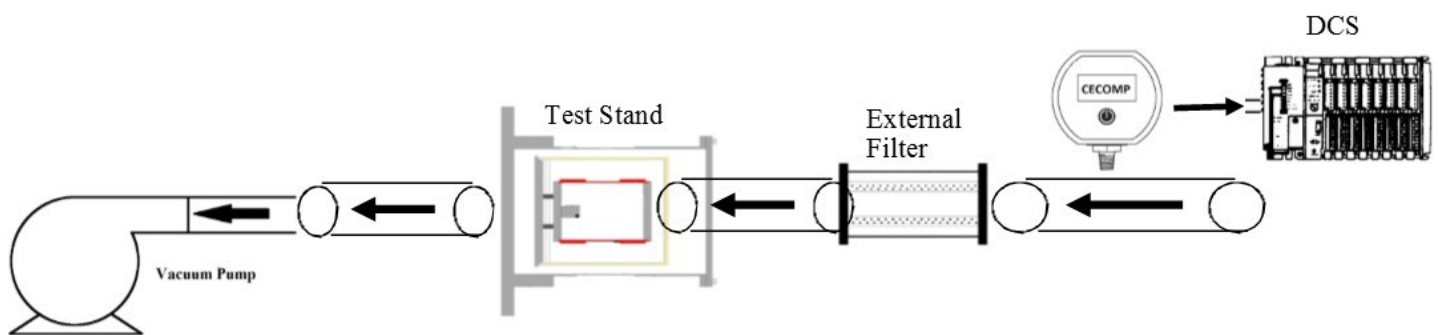
The most common treatment process for bottled water is to use a filtration system so that the water will contain fewer total dissolved solids than tap water; i.e. it will be more “pure.” The water is “sucked” through the filter, which traps any microorganisms/contaminants that may be present in the water.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



Photo by Dept of Defense ID 090428-A6-2601-002

## 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 Cecom DPG1000L, 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 the harsh test conditions.

**Problem. Solved.**