

Monitor regulated air flow leak tests

APPLICATION C163

Type of Company: [Manufacturer, CO2 Regulators](#)

Location: [Texas](#)

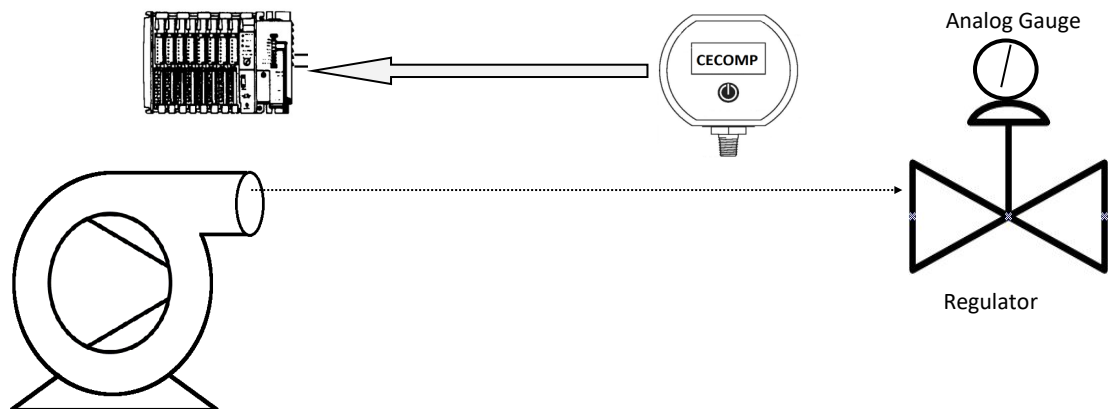
CO2 regulators are used in soda dispensing machines. Before shipment and installation, the leak rate and accuracy of the regulators must be checked. The testing procedure requires that the regulator manifold be pressurized then checked for leakage. During this test, the accuracy of the attached analog gauge must be verified and recorded.



The Engineering Issue

The engineer had two major requirements:

1. Increase the accuracy of the test in order to save time.
2. Improve manufacturing procedures by using a PLC to record the results.



The engineer used a Cecom DPG1000DR with the high accuracy option. This gave them an analog voltage output to send to their PLC and the high accuracy (0.1%) option to increase the accuracy of the test.

Problem. Solved.