

# Process Control Gas Blending



The front of panel layout and the internal piping diagram shown below are for a gas blending system. Based on demand detected by the Pressure Transmitter, the control system controlled the ratio of the two gases via mass flow controllers. In addition, an analyzer monitors the actual gas ratio, and the signal from the analyzer is used to trim the ratio control loops.

The control system is based on a Milcon S-32 dual loop controller and Sierra Mass Flow Controllers. The mass flow controllers not only provide the function of a mass flow meter, but also controls the flow level based on a process signal from the loop controller.

For this project, Fenton Systems provided:

- System Design
- Enclosure Design
- Enclosure Manufacturing
- Logic Implementation
- System Test
- System Startup

