



## GAS CONTROL MANIFOLD SYSTEMS

### PRODUCT: Model 209

#### APPLICATION DETAILS:

The customer is a leading manufacturer of gas control manifold systems, located in Denton, TX. Their fully automatic manifold is designed for demanding applications, where monitoring gas pressure loss and cylinder level is critical for their customers. When their manifold system detects a gas cylinder is low, it automatically switches over to a secondary cylinder. The manifold system has an automatic leak detection feature, which combats sudden losses of pressure in the magnitude of 25%, based on user set points.

#### CUSTOMER PROBLEM:

##### *Space limitation and need for high accuracy*

The customer serves a demanding customer base in the specialty gas, medical, and industrial markets. These customers require compact, reliable, and accurate manifold system to support their processes. These cylinders provide the gas for manufacturing processes and can also help direct necessary medical gas to a patient room. In either case, there's unacceptable and potentially dangerous downtime if a customer were to utilize a manual process to replenish gas.

#### SETRA SOLUTION:

Setra provided the customer with the Model 209 in order to monitor the inlet pressure to their gas control manifold systems. When the primary tank falls below set point the manifold system reads the Model 209's output and sends a signal to a relay that automatically switches over to the secondary tank. The Model 209 is also used within the system to detect leaks between the manifold and the gas cylinder. This allows the system to alert the user that a leak is present, while it switches over to the secondary cylinder.



#### WHY SETRA WON:

##### *Provided a high quality and reliable sensor*

The customer selected the Setra Model 209 pressure transducer due to its high accuracy of  $\pm 0.25\%$  FS, small size to fit in all of their cabinets, and Setra's reputation as a manufacturer of quality products. The Model 209 provided them the necessary performance to automate their new manifold system and to add value for their customer.

#### SETRA STRENGTHS

- $\pm 0.25\%$  FS Accuracy
- Small Footprint
- 17-4 PH Stainless Steel Offers Compatibility With a Wide Range of Gases and Liquids
- Long-Term Stability of  $\pm 0.5\%$  FS/YR