



## LEAK DETECTION SYSTEMS

### PRODUCT: AccuSense™ Model ASL

#### APPLICATION DETAILS:

Leak detection systems look for small pressure decay in components like diesel fuel filters, turbo shell housings, carburetors, transmission systems, lubrication systems and machined castings. Automotive and other component manufacturers measure smaller and smaller differential pressure values, while increasing the static test pressure. The test system pressurizes the reference volume and component under test to the desired test pressure with air or a clean gas. The component is then sealed and allowed to leak naturally. The elapsed time is recorded and the differential pressure transducer measures the difference between the reference and test pressure. With the use of differential pressure transducers in this application allows customers to sense very minute pressure changes in the test setup vs. using two gauge sensors.

#### CUSTOMER PROBLEM STATEMENT:

##### *High line pressure in leak detection applications cause sensor damage*

Overpressure and reverse pressure protection has been, and continues to be, an ongoing issue with leak detection system manufacturers. With such high line pressure being used in leak detection systems, the differential pressure (DP) could be subjected to the full line pressure on either the positive or the negative side.

#### SETRA SOLUTION:

Setra was able to provide the Model ASL, which is designed specifically for the needs of the leak detection application. The ASL measures the difference between a component under test and a reference pressure for the purpose of calculating a leak rate.



#### WHY SETRA WON:

##### *Rugged sensor designed to excel in high overpressure applications*

Setra gave the customer the value of knowing that the leak rate can be accurately measured in their high-line pressure application. The ASL has proprietary machined housing that allows the sensor to have up to 50 PSI overpressure (150 high proof option) in both directions giving the customer peace of mind on their test stands.

#### SETRA STRENGTHS

- ±0.07% FS Accuracy
- Low Differential Pressure Ranges
- High Overpressure Capability
- Unidirectional & Bidirectional Types
- Low Thermal Error