Tobacco Production Case Study

Application Details

The customer is a manufacturer of precision test and measuring equipment for the tobacco industry. With a full range of smoking machines, production test stations and laboratory instruments, the customer offers quality assurance and process control. Their devices auto-sample and calibrate through to a manually fed, portable, individual measurement device.

Customer Requirements

The customer was using a sensor that was designed into their original enclosure, but was made obsolete. The updated sensor was too large and couldn't fit in the designed enclosure – and resulted in slowing down testing and production. The customer also had an aggressive delivery schedule which was difficult for most suppliers to meet. Finally, the customer had a demanding low pressure range requirement for their machines, down to 20 Pa (0.08" W.C.)

Why Boiswood Was Successful

As a result of the Model 239 drop-in replacement sensor, the customer was able to maintain equipment quality without slowing down any production. The Model 239 replaced the old design sensor because of it's ability to provide a dimensionally suitable solution, very low pressure range requirements and high performance accuracy demands of the industry.

https://boiswood.co.uk/setra/239-high-accuracy-low-differential-pressure-transducer

The Solution

- The Model 239 provided the customer with a small footprint that could easily fit into their existing enclosure. Dimensionally the 239 was a perfect match.

- It has standard pressure ranges of 0.5" W.C. unidirectional to 10 PSID, so we were able to help develop a custom sensor to meet the very low 20 Pa (0.08" W.C.) range that was required

- We were able to include a custom mounting bracket for very easy drop-in replacement into the enclosure

- We were able to keep on schedule and meet the strict manufacturing and delivery schedules

239 Advantages

- Fast Warm Up Time

- Low Thermal Effects

- ±0.14% FS Accuracy

- Withstands High Overpressure

- Fast Response Time