

PRECISION THAT HELPS SAVE LIVES

AOP Technologies, a leading distributor of pneumatic, automation, fluid-handling and seal components, was recently tasked with developing a new electronic monitoring solution for a customer that builds defibrillators for the medical market.

Challenge

Defibrillators feature a cuff that measures a patient's blood pressure – yet this critical connection was the only piece that couldn't be monitored electronically.

After five years of research and development with a pneumatic coupling manufacturer, a unique "smart coupling" solution was created to reliably monitor the cuff-to-defibrillator connection.

In order to meet the customer's meticulous leak rate specifications, AOP Technologies needed to engineer a custom-built leak detection device for use during testing.

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AOP Leak Tester - Outside View

This kind of testing device required a high-precision, high-performance transducer, so AOP Technologies investigated numerous designs available on the market. They needed a product that offered stability, accuracy, programmability and ease of use.

Solution

The NT25 Series Pressure Transducer from Nason was the clear winner for AOP Technologies and their new leak detection device. According to AOP, the NT25 offers unmatched stability and accuracy for a range of custom applications.

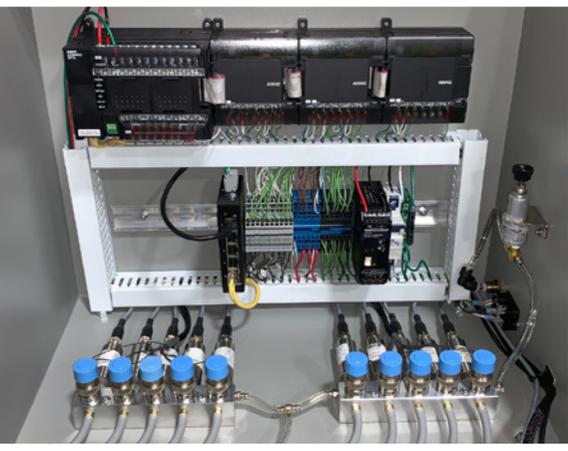
AOP's leak detection device featured 10 unique connectors to test independent coupling bodies on separate channels. With Omron PLC automation inside, the device was able to monitor the NT25 transducers simultaneously over each channel.

No other transducer could compete with the NT25's level of precision, performance and reliability – all at an exceptionally cost-effective price point. With its small footprint and comprehensive data collection, Nason's NT25 was the perfect solution.

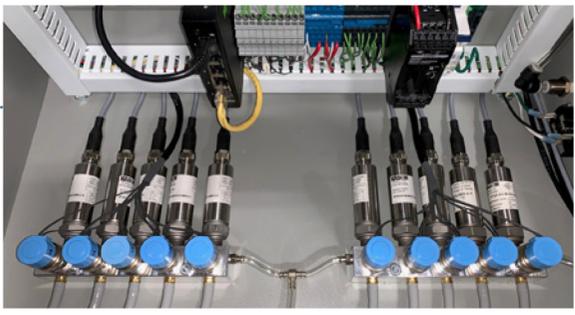


NT25 Series Pressure Transducer

- Proprietary digital/ASIC technology
- Field-proven redundant sensing elements
- Industry-leading stability and accuracy
- Wide temperature range at lower cost



AOP Leak Tester - Inside View



AOP Leak Tester - Transducer Closeup

Result

Thanks to the NT25 Series Pressure Transducer from Nason, AOP Technologies was able to build a high-quality leak detection testing device that met the customers' requirements – all while offering the ability to test multiple couplings in a production environment.