Panametrics

Application note

How a US University optimized compressed air management

by adopting Panametrics technology

Benefits:

- Ease of installation
- No process shutdown required for continuous operation
- Strong local support
- Experience with the technology and strong brand reputation
- Low total cost of ownership

Summary

Understanding actual compressed air consumption is essential when a network serves multiple users.

To achieve a fair allocation of costs and confirm that the system could reliably meet demand, a major US university sought to accurately monitor air usage across its various laboratories. The university wanted to ensure it could both distribute expenses appropriately and ensure the dry compressed air network could adequately support all users' needs.

Application

Medium:	Compressed Air
Pipe size and material:	3" (DN80) Copper
Pressure:	100 PSIG (6.9 barg)
Flow rate:	0-280 scfm (450 Nm^3/h)
Temperature:	Ambient (70°F or 21°C)
Requested accuracy:	2-5%

Challenges

The university's end-user equipment covered a wide range of applications, including tools, glove boxes, and pneumatic systems. It required a solution that could deliver accurate and reliable measurements while being compatible with diverse setups.

To avoid any interruption to the compressed air supply, the university also needed a system that could be installed without shutting down operations. Cost-effectiveness was also a priority.

With a strong track record using clamp-on and insertion ultrasonic technologies, and a substantial installed base already in place, the university prioritized a non-intrusive solution. This made a clamp-on system the clear and only viable choice for their needs.

Solution

As a result, the university now benefits from reliable, real-time monitoring of its dry compressed air lines, leveraging the proven performance and reputation of Panametrics' GC868 gas clamp-on flowmeter technology. With access to accurate usage data, the university can now confidently allocate costs among its laboratories and has the reliable information needed to ensure its compressed air network meets the demands of all users.

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PANA136AN (12/2025)

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