

March 2025

Measuring technology:

Making the invisible visible

How many compressed air station operators have complete visibility into their machines' exact condition and compressed air quality? For many manufacturing companies, insufficient monitoring of this critical data is a common challenge. The result? Unplanned downtime, decreased efficiency, and unnecessarily high energy costs.

Kaeser's cutting-edge measuring technology delivers the ideal solution. With advanced process data acquisition, businesses can lower energy costs and sustainably enhance compressed air quality. High-precision sensors track all key process and energy metrics, including leakage currents, voltage quality, pressures, temperatures, and flow rates. Additionally, leaks, pressure dew points, differential pressures, and internal machine conditions are fully transparent - providing operators with invaluable insights and significant operational advantages.

Continuous monitoring

Advanced measuring technology enables continuous monitoring of the entire compressed air system. Data can be captured, analysed, and visualised in real time. Kaeser multi-sensors transmit key measurements directly to central control units, such as the Sigma Air Manager, providing the foundation for future predictive maintenance. This proactive approach cannot only reduce costs but also significantly lowers the risk of unplanned downtime.

Placing the right sensors in the right locations is essential. Intelligent sensors capture multiple data points at each measuring location and integrate seamlessly via the secure Kaeser Sigma Network. This advanced process data acquisition enables real-time monitoring, detailed analysis, and valuable system insights for fault prevention and process optimisation. Operators can fine-tune their compressed air systems independently or benefit from real-time monitoring by external experts.

With state-of-the-art sensor technology, modern measuring devices are compact, powerful, and energy-efficient, ensuring reliable operation even in hard-to-reach places. They are also easy to install and ready for immediate use.

Maximum efficiency and sustainable savings

Reliable compressed air supply is essential for seamless production. Kaeser's advanced measuring technology delivers precise data to optimise system settings, detect leaks, and efficiently manage compressed air distribution. This enables compressed air station operators to reduce energy costs, prevent unnecessary downtime and maximise overall production efficiency.

For more information visit nz.kaeser.com or phone 0800 447 820.

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Editors Notes

Kaeser Compressors is one of the world's leading compressor manufacturers and compressed air system providers, represented internationally by a comprehensive network of subsidiaries and authorised distribution partners in over 140 countries.

Kaeser's comprehensive product range comprises; reciprocating and rotary screw compressors ranging from 0.18 to 515 kW, portable rotary screw compressors, high-pressure and dry-running compressors, compressor control systems, vacuum pumps, rotary blowers, rotary screw blowers, turbo blowers, air filters, refrigeration & desiccant dryers, as well as compressed air system accessories and services.

Established in 2015, Kaeser Compressors NZ Limited, provides comprehensive sales and service throughout New Zealand, from its facility in Auckland, alongside an extensive network of authorised partners.

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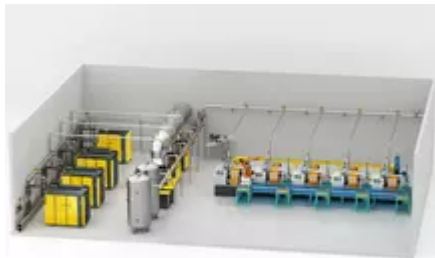
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Images:



Caption: Strategically placed sensors in a compressed air system enhance safety, efficiency, and sustainability.

((Kaeser photo – free for publication))