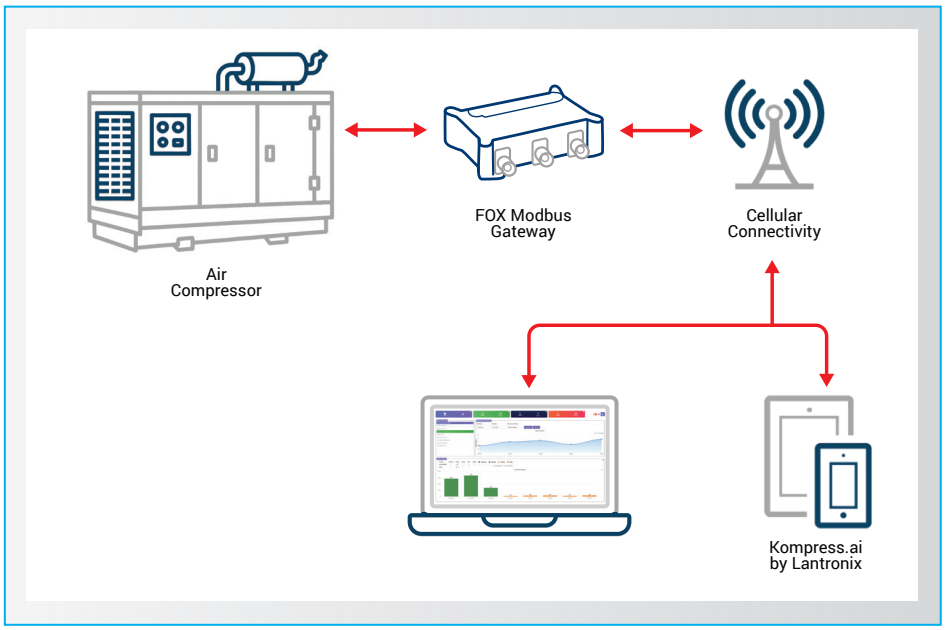
KOMPRESS.ai
By LANTRONIX

Cut Energy Costs by Up to 30%

Manage Compressors. Any Vendor, Anywhere

Less Downtime. More Peace of Mind



Challenges in Compressed Air in Industrial Operations:

- Inefficient compressor sequencing drives up energy costs
- Overdriving equipment increases downtime risk
- Artificial demand and pressure instability silently waste energy
- Lack of data disrupts service and parts availability
- Restricted data complicates ISO 50001 and ESG reporting

Industrial-Grade Simplicity

- FOX gateway connects with every compressor
- Secure Modbus-to-cloud connection
- Includes power supply & cable harness

Effortless Connectivity

- Cellular-enabled - secure & independent from corporate networks
- Fast deployment, no costly cabling needed
- Reliable data from any site

Access in Your Pocket & Browser

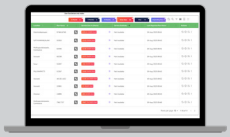
- Mobile app for setup, monitoring & alarms
- Web portal for fleet-wide insights & reports

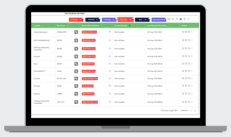
Energy Management

- Gain visibility into load/unload cycles to optimize sequencing.
- Identify which compressors are best suited for each shift.

24/7 Monitoring

- Access real-time alarms and ensure timely response to critical issues.
- Track KPIs like temperature, pressure, run hours, and load hours.





Service Management

- Monitor wear and tear to prevent failures and reduce energy waste.
- Schedule on-time service visits based on actual runtime data.

Automated Compliance Reporting

- Collect data for ISO 50001 reporting
- Track compressor CO2 emissions

Case Study: Data-Driven Efficiency in Action

Customer Profile

A global manufacturer of gears, gearboxes, and geared motors relied on compressed air for tooling, machinery, cleaning, and quality control. Their compressors operated independently, leading to high energy costs and inconsistent loading patterns.

Findings

After deploying Kompress.ai by Lantronix, the customer discovered:

- Load-Unload Ratio: Over 15 days, poor ratios led to 755 kWh of wasted energy, projecting to 18+ MWh annually—from just one compressor.
- Pressure Instability: Fluctuations were degrading performance and efficiency.

Challenge

At one facility, a 45 kW compressor was part of a station lacking centralized monitoring. Without visibility, inefficiencies went undetected.

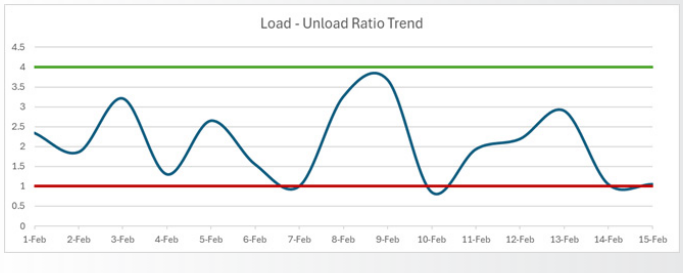
Outcome

With real-time data, the customer:

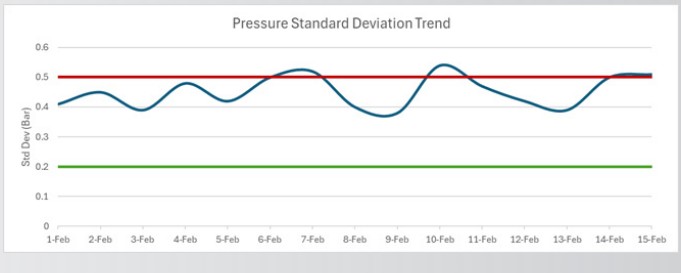
- Optimized compressor sequencing by shift
- Stabilized pressure swings
- Unlocked thousands in annual energy savings

The solution delivered immediate ROI and continues to provide value across the compressor's lifecycle.

Case Study Images



Inefficient ratios adding up to 18 MWh+ of wasted energy annually. A shift toward 3:1 unlocks significant savings



Pressure swings and poor ratios degrade performance. Stabilizing near 0.2 Bar drives reliability and energy savings.

Ordering Information

To get your Kompress.ai by Lantronix solution, order both of the part numbers in the below table

Part Number	Description
KMPRS-AI-3Y	KOMPRESS.AI SUBSCRIPTION SERVICE, 3 YEAR TERM
KMPRS-AI-HW	HARDWARE KIT FOR KOMPRESS.AI

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