

Remote Monitoring of Air Compressors

Efficient and Secure Cloud Management



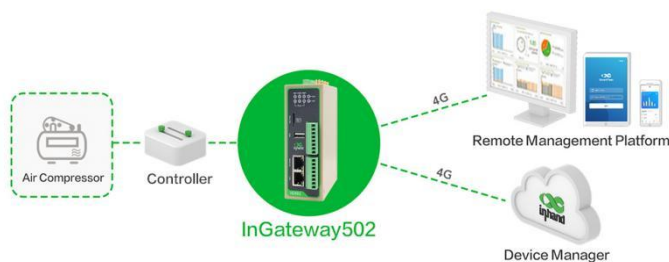
Background

As an important facilitator in industrial automation, the air compressor is widely used in various segments, such as aerospace, steel, non-ferrous metallurgy, ship manufacturing, textile, automobile, etc. Use of air compressors involves a lot of maintenance and troubleshooting. Traditionally, engineers patrol and check each machine at the customer's site on a regular basis. This implies a number of risks, for instance, equipment may not be maintained promptly in case of a fault – and downtime means huge losses. In addition, manual patrol and check also involves high costs; some hidden problems may not be identified in time and can thus become security hazards

With regard to those issues, InHand Networks offers a “cloud + edge” remote monitoring solution for air compressors featuring its industrial-grade IoT edge gateway.

InHand's Remote Monitoring Solution for Air Compressors

Data from onsite controllers, including pressure, temperature, operation time, warning codes, fault codes, etc. are collected by the IG502. With preset rules, the gateway can filter and process some of the data locally before sending them to the cloud, which saves bandwidth, relieves the work load on the cloud and also improves the quality of data. On the cloud side is the customer's self-built remote management system, from where equipment on site can be monitored and maintained centrally.



The whole system can be accessed via web and mobile app at any time from anywhere. Users can view the operation status and fault alerts of the air compressors, configure, upgrade and debug the machines remotely. This increases the operation efficiency of the equipment, shortens troubleshooting, lowers costs for maintenance as well as communication between air compressor manufacturers and customers, improving services and business performance.

Why IG502?

- With support for multiple industrial protocols and major IoT clouds, the IG502 helps customers quickly build a “cloud + edge” solution for data collection and uploading;
- Featuring industrial design and multi-link redundancy, the IG502 works reliably under harsh industrial environments;
- With powerful edge computing capabilities and lower costs, the IG502 makes it easy for digital transformation;
- Python programmable, the IG502 enables users to customize their applications, so that data can be filtered, computed or analyzed on the IoT edge;
- Embedded with 8GB eMMC and Micro SD card, the IG502 enables data to be buffered locally when networking is unavailable, and resumes transmission when connectivity gets back;
- With worldwide certifications including CE, FCC, PTCRB, Verizon Wireless, AT&T, NBTC, etc., the IG502 works for the globe;
- The “cloud + edge” solution enables connection to large quantities of devices, which means shorter debugging time, lower operation costs and increased performance for businesses.

About Us

InHand Networks is a global leader of Industrial IoT, with a record of tremendous success following groundbreaking innovation since our inception in 2001.

InHand serves world-class partners and customers with industrial M2M routers, gateways, industrial Ethernet switches, rugged computers and IoT management platforms. We provide IoT solutions for various vertical markets including Smart Grid, Industrial Automation, Remote Machine Monitoring, Smart Vending, Smart City, Retail and more.

Proudly bearing the marks of both Rockwell Automation Encompass Product Partner in Asia-Pacific and Schneider Electric CAPP

Technology Partner, InHand Networks defines industrial innovation and reliability.



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