

# REMOTE CONNECTIVITY IS ADDING TO UPTIME

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Customers are curious to know about the ways and means of getting the best uptime from their vacuum pumps. And it's natural. After all, pump uptime plays a big role in production and thereby impacts the bottom line.

It is important to clarify that the main reasons why pumps will not perform at peak are related to poor maintenance and poor analysis of failure event. In most of the cases, downtime can be predicted. However, many companies fail to put into place the right combination of tools and strategy required to prevent unexpected breakdowns. Sudden breakdowns hinder production, affect quality, and eat into profitability of the end product.

## UNDERSTANDING PUMP UPTIME

It is a metric used to measure the % of time that a pump can be used. In simple words, it's the amount of time for which the pump runs and is available for production of the desired vacuum. Uptime is a key metric. An indication of a pump's health and production efficiency, pump uptime helps customers efficiently plan their production and maintenance schedule.

An up and running vacuum pump generates value so long as it's operational. Which is why every manufacturing plant must focus on ensuring the maximum uptime for each and every vacuum pump.



## MAXIMUM PUMP UPTIME, WITH LOWER COST AND LOW EFFORT

Getting on the right track to ensure the highest uptime for your vacuum pumps calls for tracking the existing downtime and its causes. The next step is to look for solutions that will reduce pump downtime.

Maintenance plays a very important role in determining a pump's uptime, and it should be a top priority for the facility managers. Keeping track of the pump's maintenance, however, is a cumbersome task as there are many factors to be considered. These include the number of pumps in the factory, location, type of application where the pumps are used, severity of the application. Further, it's a known fact that pumps running in a harsh environment need more attention.

Some time ago, large enterprises came up with an innovative solution to address the complexity of pump maintenance. They started connecting their pumps, through their local network (LAN), with central monitoring systems to improve the reliability and uptime. This scenario demands on-time intervention in case of problems. In complex manufacturing environments, the monitoring of the pumps is usually done by a specialized engineer. It's the engineer's responsibility to collate information and prevent downtime.

This type of solution works well but is expensive and complex. Not to mention the customers must have their own maintenance team on standby.



Even as we speak, digital technology is transforming our lives at an amazing pace. This advanced technology is connecting the world like never before. Connecting machines, digital technology is enabling real-time monitoring. As a result, remote connectivity is making a world of difference in vacuum pump management. In fact, industry 4.0 banks on remote connectivity to sync machines, robots, and internal management systems. Adopting automation, industry 4.0 is leveraging cloud-based solutions to improve production output. The latest industrial revolution is further powered by AI, data, and machine learning. Today, remote monitoring is gaining attention because it is simple, real-time, and costs much less than the heavy house-based management systems.

Customers in need of improving uptime and reliability of their vacuum pumps will largely benefit from remote connectivity. Principal reason being, it brings accessibility and transparency with on-time insights on any operational aspect of the pumps.

## MAIN BENEFITS OF CONNECTING PUMPS TO THE CLOUD:

- **Accessibility – 24\*7** monitoring, real-time updates on pumps’ condition, failure and warning intimation to customers through e-mail, SMS or applications such as WhatsApp and WeChat
- **Better utilization of pumps** – Better performance by improving the data points such as temperature, pressure, vibration level and energy consumption
- **Lower pump downtime** – Remote assistance to address pump failure
- **Planned interventions** – Pumps’ service schedule based on real operating condition
- **Planned maintenance costs** – Predictive and preventive maintenance agreements
- **Increased uptime and reliability** – Collected data translated into recommendations to customers



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