When it comes to pumping liquids, pumps and systems from Colfax Fluid Handling are among the most trusted solutions in the world.

The team at Colfax Fluid Handling is committed to developing the best solutions for your specific requirements. We refer to this as Total Savings of Ownership (TSO), which aims to minimize total operating costs. At Colfax Fluid Handling, savings begin with fair prices. But Total Savings of Ownership also means having the knowledge of what it takes to optimize the profitability of an industrial system throughout its entire service life.

Our extensive know-how, technical experience, and application competence give us the ability to optimize system performance and ensure that your employees receive the application experience and training they need. We have a global presence, coupled with the right tools for streamlining your engineering and technical processes. This gives us the unique ability to ensure that you receive what you need—precisely when you need it. Colfax Fluid Handling is committed to your success. We redefine what is possible for you and your customers.
With its Smart Technology IN-100 Series, Colfax Fluid Handling is defining a new generation of Condition Monitoring.

IN-1000 is an electronic and fully automated monitoring system. The modular design of IN-1000 permits easy integration into pump systems, with pre-configured settings that are the foundation of rapid, individualized startup. IN-1000 may be retrofitted at any time and allows central monitoring of up to 21 pumps with one control.

The new Smart Technology IN-1000 series is ready to handle anything from straightforward condition monitoring to more complex monitoring activities, including operation monitoring of multiple pumps for simultaneous fulfillment to ensure your safety and operating cost requirements are met.

Operations are monitored continuously and automatically, with activity logging and storage for evaluation of your process. If unusual operating conditions occur, both audible and visual alerts are triggered and shown on a graphics-capable color display.

Because of these capabilities, maintenance and repairs can be planned in advance, there are no unplanned production downtimes or consequential damages, and maintenance intervals are extended. As a result, expenses for maintenance repairs are necessary.

The early phases of mechanical seal damage is detected by collecting and monitoring the normal leakage that is exceeded, the system will respond according to its mechanical oscillations are monitored and continuously compared to two threshold values defined by DIN/ISO 10816-3 and -1. As a result, vibrations during operation are detected before they can cause damage.

Satellite monitors the condition of the bearing. Changes in bearing temperature are evaluated to indicate potential wear of the bearing.

Additional digital and/or analog sensors (based on specific requirements) monitor parameters such as pressure and liquid temperature.

Two-Level Alert System

Maintenance personnel receive information about disturbances and/or irregular operating conditions in plain language, accompanied by visualizations on the graphical display. If the warning threshold for one of the monitored parameters is reached, a notification appears. Warnings indicate that maintenance should be planned. If the alarm threshold for one of the monitored parameters is exceeded, the system will respond accordingly to its configuration, e.g., automatically shutdown or switchover to a different pump. Alarms indicate that maintenance and/or repairs are necessary.

Data logging

IN-1000 records all sensor data with the date and time, which can be exported to a spreadsheet for evaluation purposes. Data logging identifies the pump’s current operating conditions. With this information, load profiles, pressure curves, or temperature load curves, for example, can be generated in order to uncover potential for optimization. The causes and triggers of the error and alarm messages can be derived directly from the recordings.

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Pump system monitoring for elevated protection

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Remote maintenance

Ethernet connections provide for communications with a master control panel. The Vijeo Design’Air smartphone app and an integrated web server give maintenance personnel and others the power to access the system remotely with their phones or any Internet-connected computer.

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APPLICATION EXAMPLES

- Increase the safety of thermal oil systems
- Optimize cooling-water processes
- Logging of operating points for generation of load profile

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