

THE FACTORY AUTOMATION COMPANY

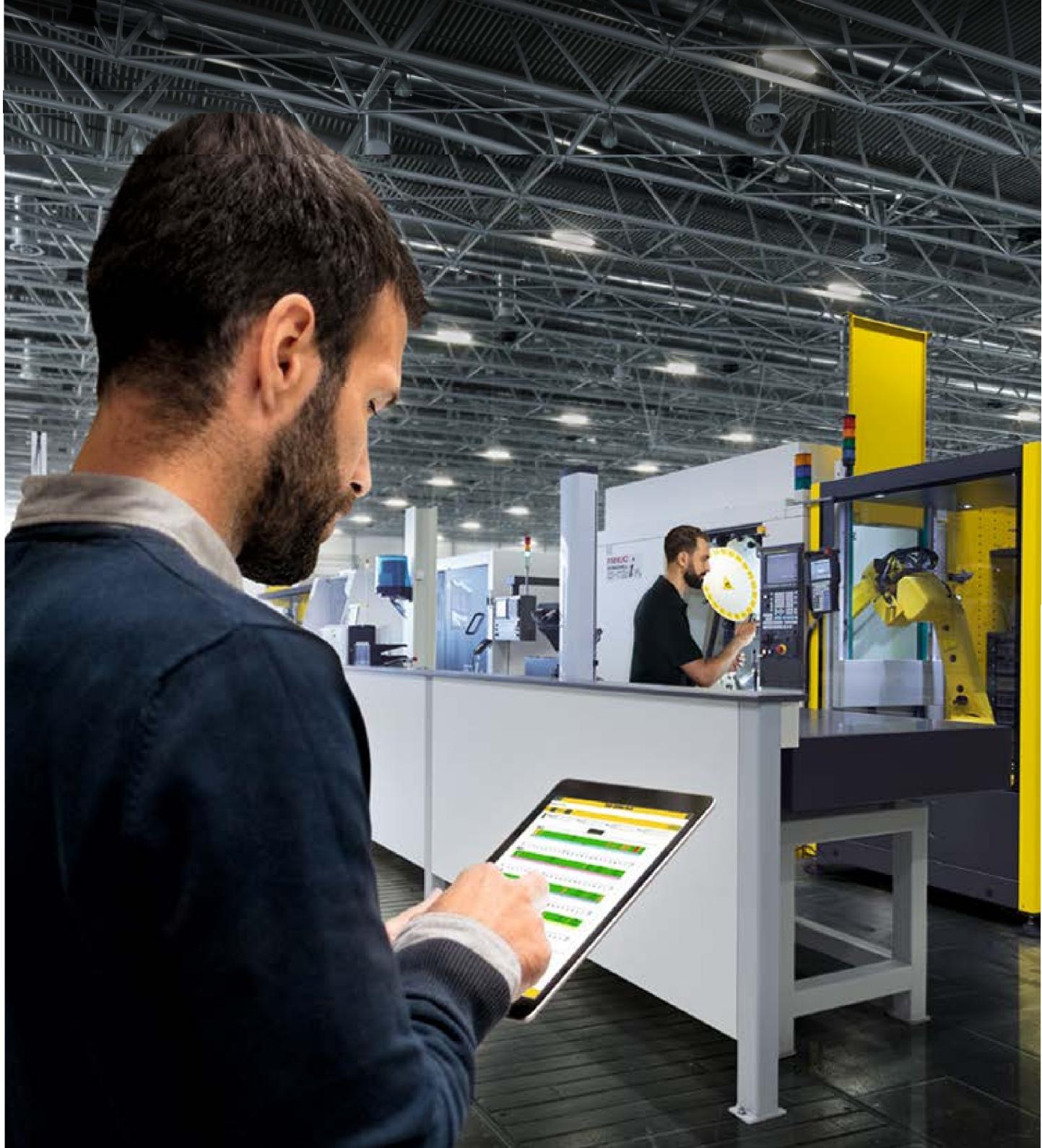


ProMonitor

The easy way to monitor your production

Operation management software running on standard PCs.

Collect data and monitor the status of your factory's production equipment.



ProMonitor

ProMonitor is a comprehensive PC software solution designed to connect machines, robots, and peripheral devices across the factory. It enables real-time data collection, visualization, and analysis, giving manufacturers deeper insight into their operations and historical performance trends. In addition to FANUC CNCs and FANUC robots, ProMonitor can seamlessly connect with Siemens and Heidenhain controllers, as well as any NC or CNC-controlled machine from any manufacturer, including robots, PLCs, and sensors. Its vendor-independent connectivity makes ProMonitor an essential first step toward implementing IoT capabilities on the shop floor. By using the data gathered and presented through ProMonitor, customers can improve productivity, enhance process efficiency, and drive smarter, data-based decision-making.



ProMonitor benefits:

- Improve productivity due to detailed machine data
- Detect inefficiencies in machine utilisation
- Improve uptime by diagnostic functions
- Save time by automatic custom regular reports
- Have a backup for CNC system and programs



Easy connectivity

ProMonitor makes it easy to access and transfer data from factory equipment such as machine tools with CNCs, robots and PLCs over a network. ProMonitor also supports connecting Siemens, Heidenhain and other third-party NC/CNC-controlled machines, as well as devices using protocols like OPC UA and MTConnect.

Quick and easy setup and configuration

ProMonitor is easy to set up and features a scalable system architecture. Data acquisition is handled by the dedicated Collector PC software, while all collected data is stored on the Server PC software. The Server PC also provides a web-based user interface for data access and visualization, accessible from any PC or tablet on the network using a browser. For smaller installations with only a few devices, the Collector PC software and Server PC software can run on a single standard personal computer. One ProMonitor server can handle up to 100 devices, and production data from larger systems with more than 100 devices can be combined and managed through the ProMonitor Integration Server.

Production monitoring

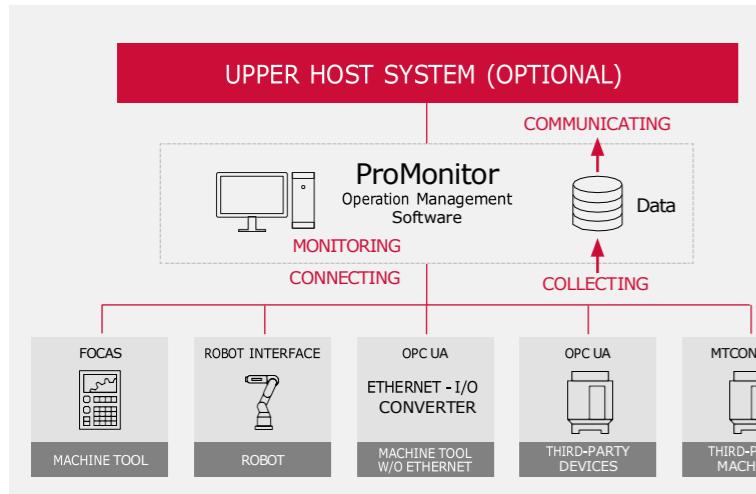
ProMonitor enables you to monitor live the state of the whole factory at a glance. Recognise abnormal states of the equipment such as alarms quickly, allowing you to start countermeasures immediately.

Performance overview

ProMonitor allows you to review the operational results on machine level. You can review the production results and compare them against the production plan. You also can check machine utilisation and find machines that are underutilised. This enables you to optimise the factory's resource planning.

Diagnostics

With ProMonitor, it is possible to view various diagnostic data such as alarm history, program history, signal history and macro value history. With this, you are able to identify bottlenecks and optimise the production process. ProMonitor also enables you to schedule automatically generated reports in CSV file format. The report templates can be customised to suit your needs.



Connecting ProMonitor

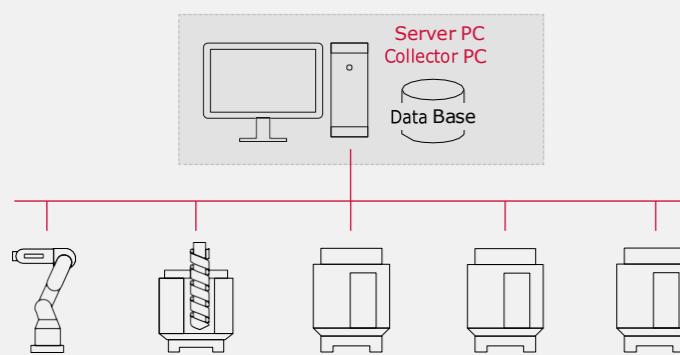
- connect machine tools with FANUC CNC via FOCAS
- connect FANUC robots via Robot Interface
- connect machines without Ethernet via Ethernet I/O converter
- connect third-party devices via OPC UA protocol
- connect third-party machines via MTConnect protocol



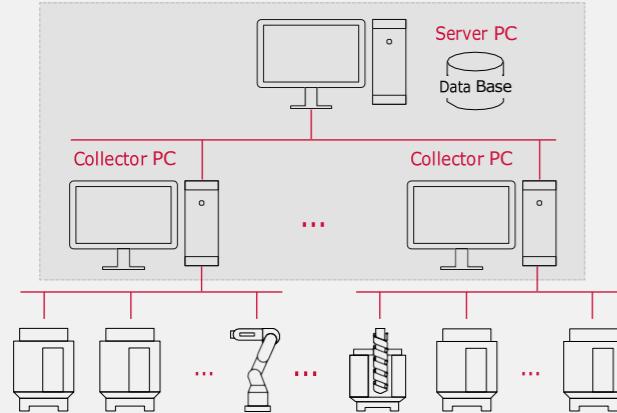
Using ProMonitor

- web-based user interface
- supports PCs and tablets

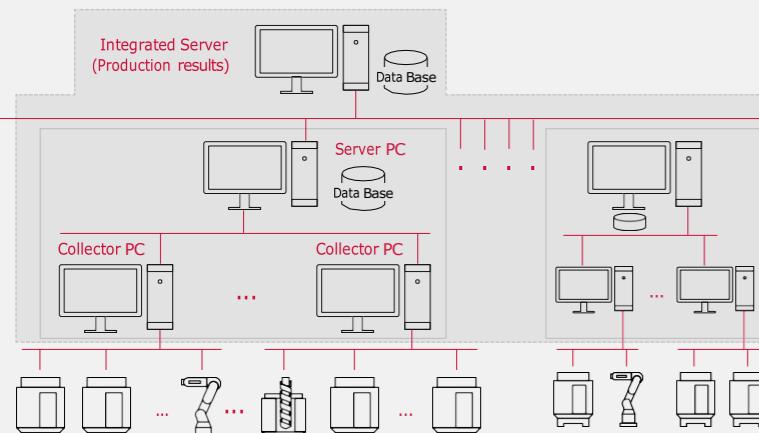
Small system with few devices



Medium system with up to 100 devices



Large system with more than 100 devices



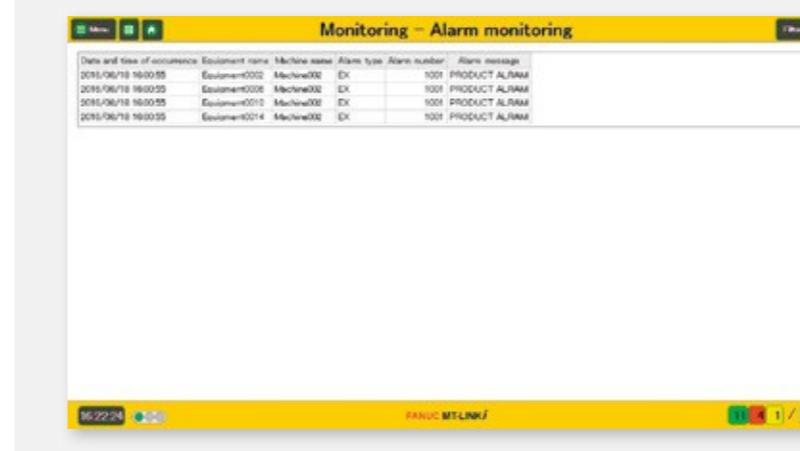
Scalable system architecture

- for small systems with less than 25 devices only one PC is required
- in ProMonitor up to 100 devices are considered as a medium system where multiple collector PCs provide all machine data to one central server PC
- large systems with more than 100 connected devices can be centralized using the ProMonitor Integration Server



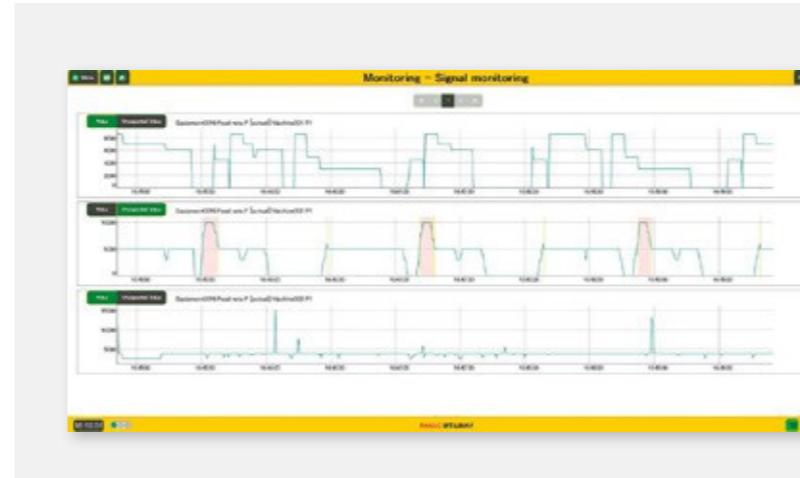
ProMonitor FUNCTIONALITY Overlook

- enables you to recognise abnormal states of your machines quickly
- detailed information available by just clicking on a machine
- reduce down time by starting countermeasures immediately



ProMonitor FUNCTIONALITY Alarm Monitoring

- enables you to monitor alarm information occurring on your machines live
- helps you to identify the alarm's cause quickly



ProMonitor FUNCTIONALITY Signal Monitoring

- enables you to monitor signals such as feed rates, spindle/servo load and temperature, override and so on live



ProMonitor FUNCTIONALITY Operational Results

- provides you with graphs displaying the machines' operational status such as OPERATE, ALARM or STOP
- data can be output to CSV file
- helps you to check machine utilization and detect unused production capacity



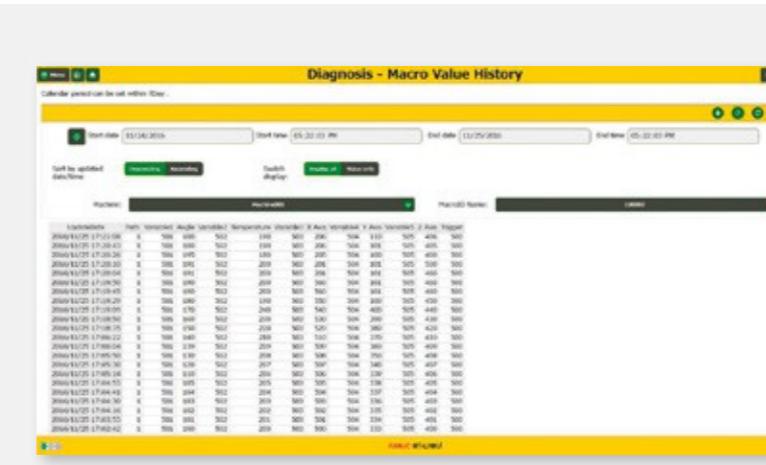
ProMonitor FUNCTIONALITY Signal History

- shows you the signal history of various machine signals
- data can be output to CSV file
- allows you to identify correlations between machine signals
- enables you to check the condition of batteries, fans and motors' leakage resistances based on their signals and replace worn-out components in time



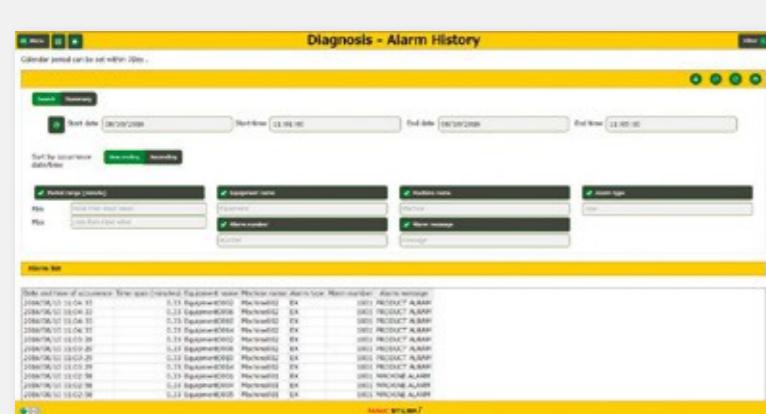
ProMonitor FUNCTIONALITY Production Results

- shows you the production results and production plans of your machines
- data can be output to CSV file
- allows you to easily identify deviations from the production plans



ProMonitor FUNCTIONALITY Macro Value History

- shows you stored values of given macro variables from the past
- data can be output to CSV file
- can be used to collect and store various kinds of data, e.g. measurement data of tools and workpieces



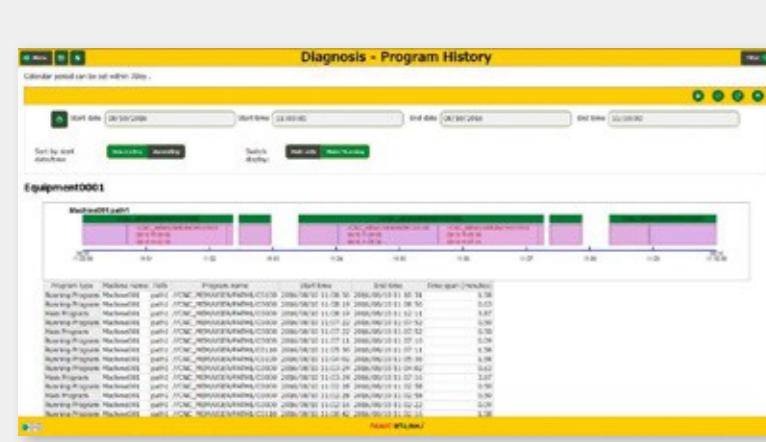
ProMonitor FUNCTIONALITY Alarm History

- shows you information on alarms that occurred in the past
- data can be output to CSV file
- helps you to identify common alarms, analyse alarm causes and eliminate them



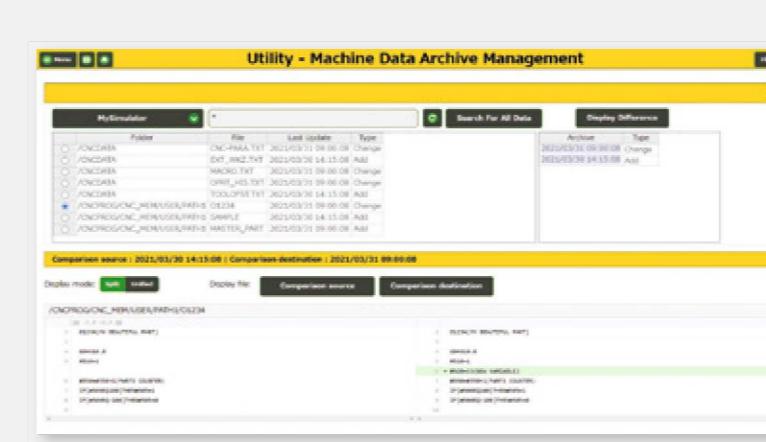
ProMonitor FUNCTIONALITY Report Output

- enables you to schedule automatically generated daily, weekly and monthly reports in Excel file format
- report templates can be customised
- allows you to save time with automatic reports



ProMonitor FUNCTIONALITY Program History

- shows you information on programs that ran in the past
- checks the cycle time of your programs
- data can be output to CSV file
- helps you to check machine utilisation and machine productivity



ProMonitor FUNCTIONALITY File Transfer

- download/upload NC data (NC programs, parameter files etc.) between CNC and ProMonitor Server PC
- manage your NC programs efficiently
- enables you to create backups easily and store the backup data in a central place
- manages your archived files and shows differences between archived backup versions

