

Asset Health Monitoring Solution

Use data from the field for preventive diagnostic concepts and faster troubleshooting

Siemens Edition



SRP700 Siemens Edition

Use data from the field for preventive diagnostic concepts and faster troubleshooting

Devices often report maintenance required months before they fail. In a lot of cases such information is not collected or is lost in logfiles of the control system where maintenance technicians do not have access.

Endress+Hauser has developed a system that enables you to get at this information and make it available in an easy way.

Its advantages:

- Take actions on diagnostic data provided by devices
- Connect with a fingertip to the device for troubleshooting and configuration
- See actual and past diagnostic data as well as prescription measures together with their time stamps
- Analyze historical device diagnostic data

A major focus during development was on the design and the usability for maintenance and reliability groups. For example, you can structure your devices in your plant according to your process areas – not as your control system architecture is forcing you to.

The Siemens Edition of Endress+Hauser's Asset Health Monitoring solution adds device configuration, advanced diagnostic and preventive maintenance capabilities to existing or planned Siemens control systems. It supports all major PROFINET and PROFIBUS system components.

The SRP700 Asset Health Monitoring solution is tailored to the needs of the industries, e.g. Food & Beverage or Chemical.

Benefits:

- **Plant Operators** get the opportunity to integrate preventive maintenance into their plant upkeep procedures.
- **Reliability Engineers** have easy access to the health status of instruments in their plant.
- **Maintenance Engineers** are offered an overview of all devices with filtering by status or searching by tag; it takes one click only to see what needs their attention in their part of the plant.
- **Instrument Engineers** get a one-fits-all device configuration management platform.

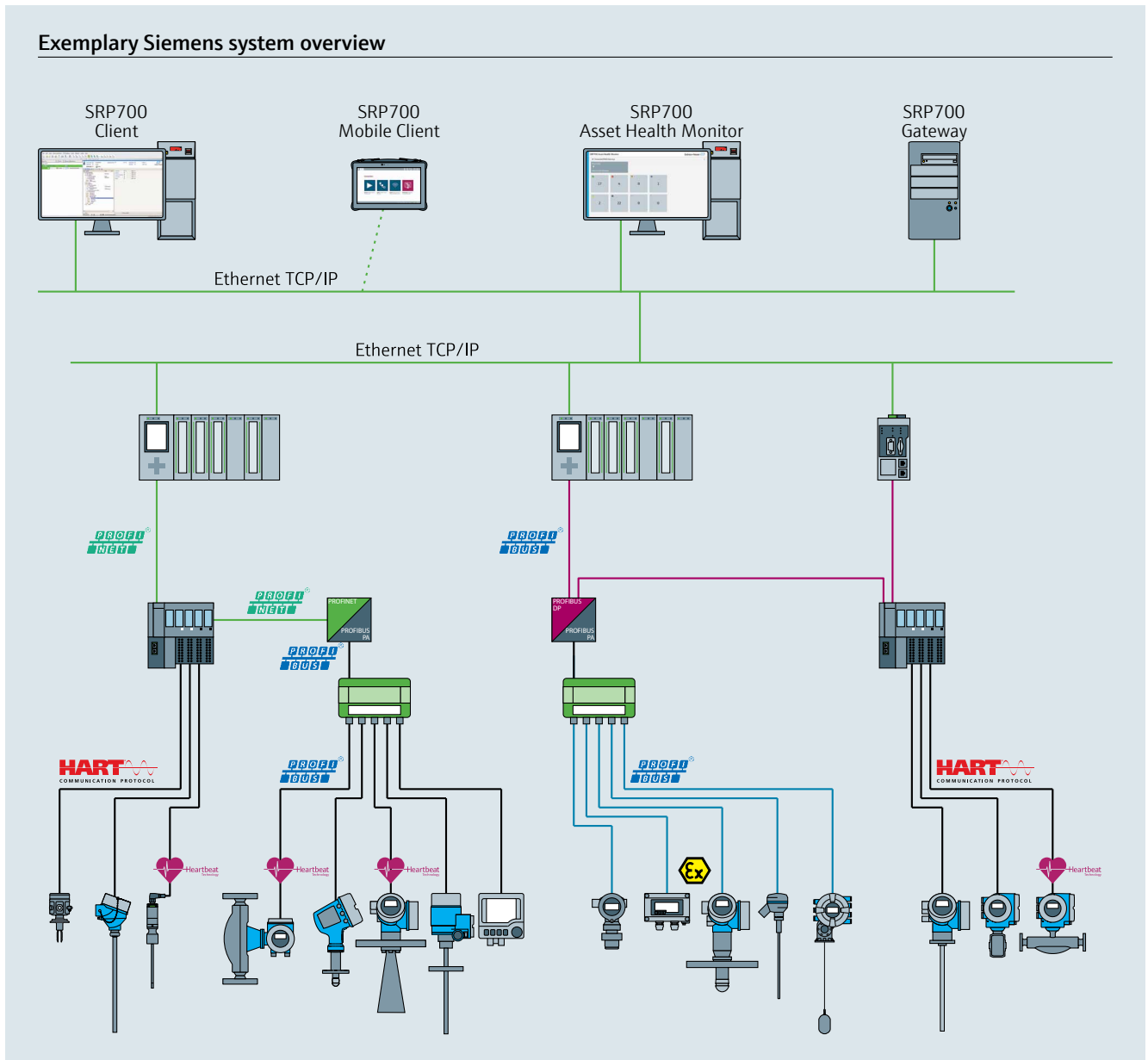


Tailored for the Chemical industry: SRP700 Asset Health Monitoring



The SRP700 solution is perfect for the Food & Beverage industry

Exemplary Siemens system overview



From instruments in the field up to the Asset Health Monitoring Solution

All on-premises and IIoT ready

The Asset Health Monitoring Solution works 100% on-premises and ensures reliable connectivity as a fundament for IIoT applications in the future, including the ability to connect to cloud solutions, e.g. Netilion Services and W@M Portal.

At the same time, it strives to keep commissioning as simple as possible, this being done in a couple of clicks.

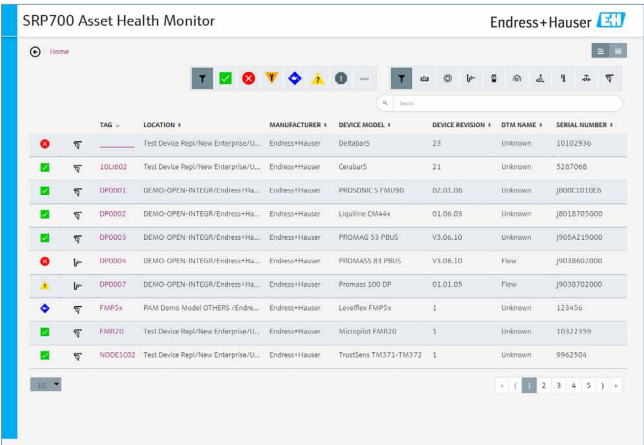
Asset Health Monitoring Solution

The Asset Health Monitoring Solution always consists of at least one SRP700 Gateway, the SRP700 Asset Health Monitor and an SRP700 Client (desktop or mobile).

SRP700 Asset Health Monitor

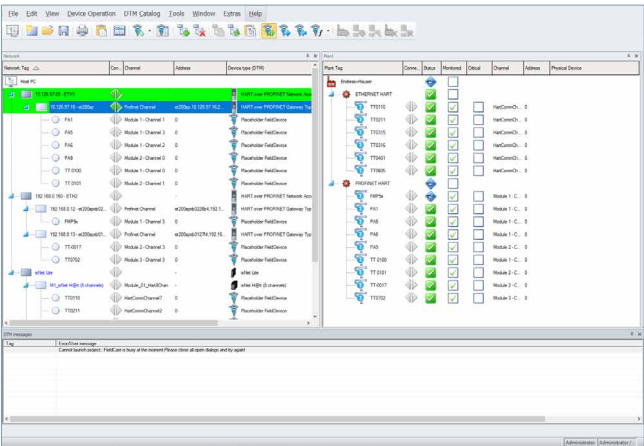
The SRP700 Asset Health Monitor, together with the SRP700 Gateway, forms the central component of the Asset Health Monitoring solution.

It runs either on traditional hardware or in a virtual machine environment. It collects and stores diagnostic information from up to 10 SRP700 Gateways in one database. The information displayed can be filtered by e.g. status, topology or searched by tag. The server allows remote access to configurations, documentation and device diagnostics from any location within the plant or office.

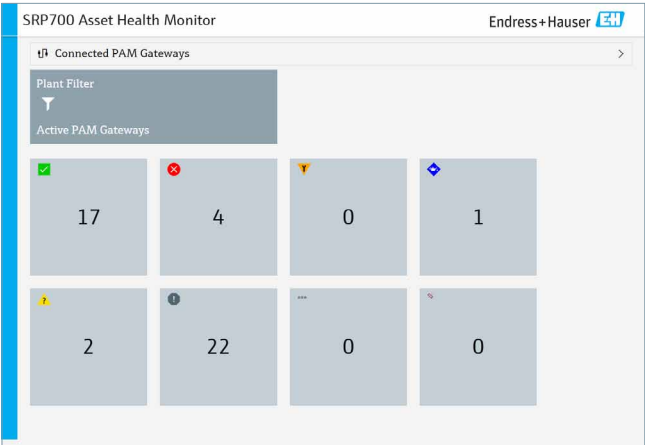


SRP700 enables easy filtering by status, tag, device type, vendor or location

SRP700 Gateway



SRP700 Gateway provides a virtual representation of the physical network architecture.



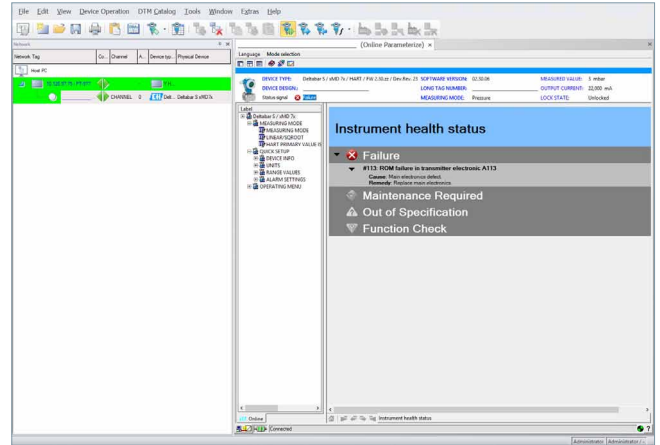
SRP700 Asset Health Monitor quickly gives an overview of the plant device status

An SRP700 Gateway hides network complexity by automatically scanning for connected devices out-of-the box. Diagnostic information from up to 1 000 devices is available 24/7. Devices can be configured independently from a Client without interrupting the Asset Health Monitoring. Several gateways can run in parallel to cover installations larger than 1 000 Tags.

SRP700 Client, desktop workstation

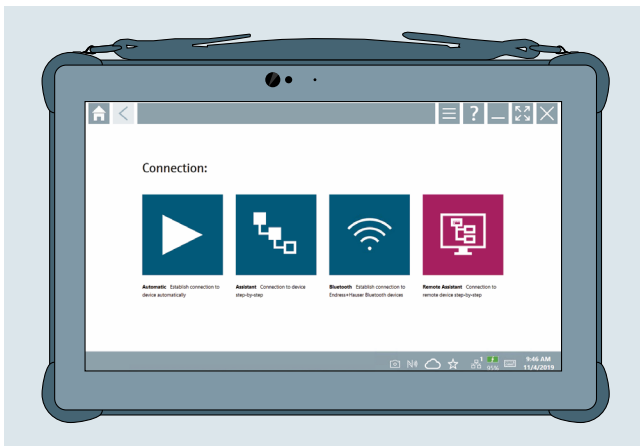
SRP700 Client is the standard client for Device Configuration Management and runs either on traditional hardware or in a Virtual Machine environment.

- Plant Operators get a simple summary of diagnosis information, with the diagnostics of all devices connected to various field networks or remote I/Os being displayed.
- Reliability Engineers get data on the installed base, device obsolescence and replacement delivery times, access to certificates etc.
- Maintenance Engineers get condition monitoring, showing the status of devices categorized according to severity, with cause and remedy information, so that they can quickly fix potential problems.



SRP700 Client for state-of-the-art Asset Health Management

SRP700 Mobile Client, mobile industrial tablet



Field Xpert SMT70 for mobile Plant Asset Management

SRP700 Mobile Client is the field-proven Field Xpert SMT70 IP65, Class I, Division 2 or SMT77 IP65, Ex Class I, Division 1 industrial tablet for Device Configuration. It provides access in the field via a wireless (Wi-Fi and Bluetooth), Ethernet or 1-to-1 connection with devices, including those from 3rd-party vendors.

Additional services of the SRP700 solution

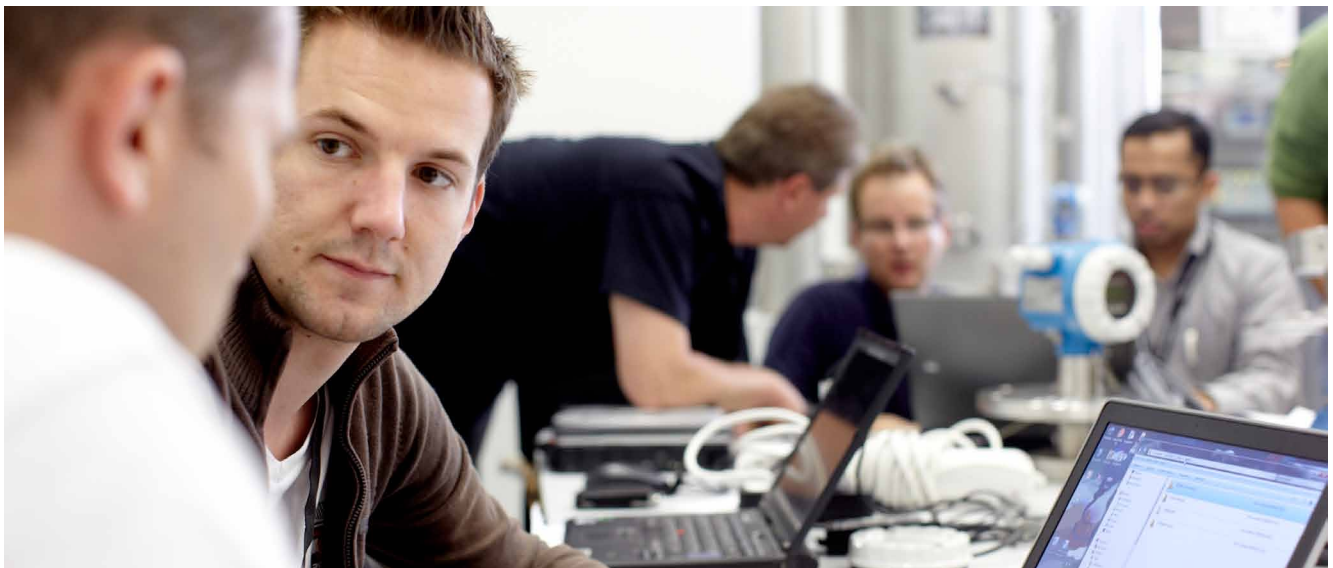
Heartbeat Verification support

Heartbeat Technology saves costs in plant processes and ensures plant availability as well as safe plant operation. Heartbeat Technology verifies, without interrupting the process, the correct functioning of measuring devices according to their specifications and generates a corresponding report.



The automatically generated report supports the documentation requested by internal and external regulations, laws and standards.

With the SRP700 solution you can easily generate the verification report and upload it as a PDF.



Our service provides access to experts around the clock

Training, commissioning and support services

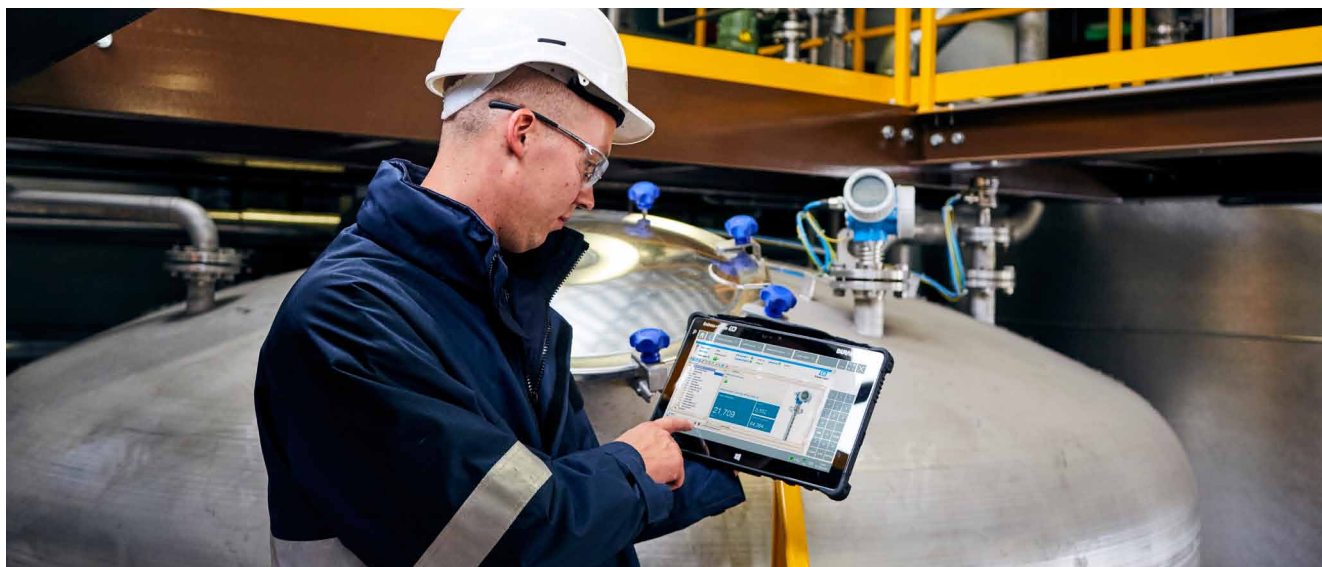
As part of an overall solution, training and remote or onsite commissioning support are included in the SRP700 Asset Health Monitoring offering.

A support contract ensures that all software updates are implemented, either remotely or by the local Endress+Hauser service office or a partner.

User benefits

SRP700 Asset Health Monitoring Solution

- Enable and improve the efficiency of preventive maintenance concepts by providing diagnostic data from the instruments such as calibration or cleaning required.
- Reduce time spent for troubleshooting instrumentation (e.g. cause & remedy information, ease of use).
- Enable quicker identification of critical devices and simplification of routine tasks such as reactive maintenance (e.g. mobile platform).
- Improve preventive maintenance utilizing device diagnostic data history (Asset Health Monitor).
- Deliver an ease-of-use solution made simple for maintenance technicians (e.g. touch screen, mobile, remote access) – one tool fits all PROFIBUS PA, PROFIBUS DP and HART instruments.
- Support centralized Heartbeat Technology routines for all measurement parameters.
- Visualize and analyze NAMUR NE 107 diagnostics in a standardized way.



Benefit from the SRP700 Asset Health Monitoring Solution – wherever you are



Supplementary documentation

- FieldCare SFE500
Competence Brochure – CP00001S/04/EN
- Field Xpert SMT50
Innovation Brochure – IN01172S/04/EN
- Field Xpert SMT70
Competence Brochure – CP01372S/04/EN
- Field Xpert SMT77
Competence Brochure – CP01377S/04/EN

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