

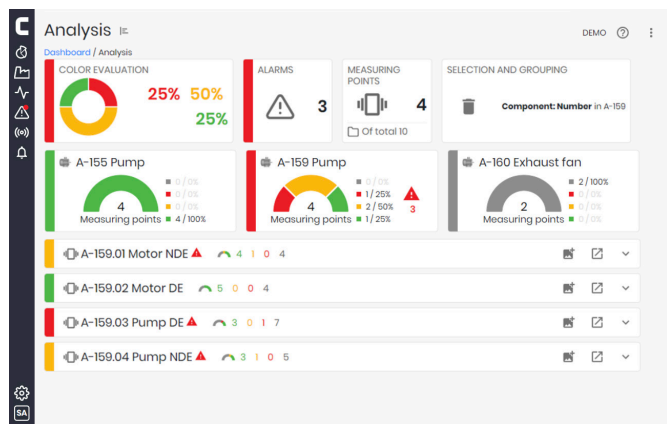
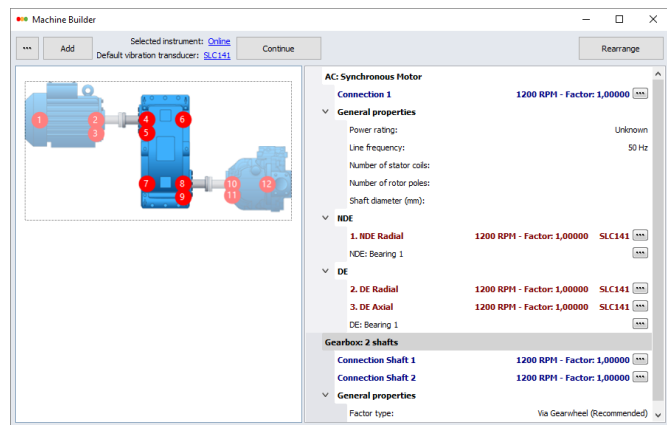
Condmaster[®] 2020 RUBY

UPGRADE BENEFITS

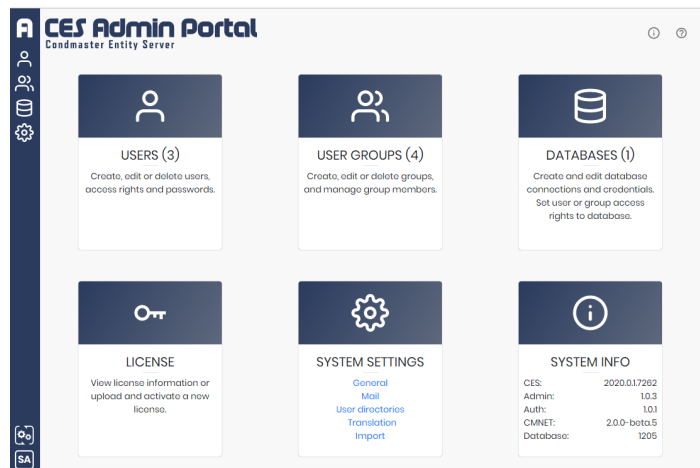
Condmaster Ruby is a highly flexible diagnostic and analysis software, offering unique condition monitoring functionality and process optimization capabilities. The new release arrives with optimal digitization and data exchange opportunities for IIoT environments. Powerful further developments enhance performance and throughput, as well as extended accessibility of condition monitoring data to more platforms to suit different user needs.

Overview of key upgrade benefits

- The concept of 'machine' is added as a new, top-level entity in the **Measuring Point Tree** and the **Graphical Overview**. Components and measuring points can thus be sorted hierarchically as entities belonging to a machine.
- The **Machine Builder** is a new, powerful and time-saving feature in Condmaster. From a built-in library, users can drag-and-drop components such as electric motors, gearboxes, fans, and pumps, to create machines and complete applications, for which Condmaster automatically generates appropriate measuring points, measurement assignments, and machine fault symptoms. Color zones are created automatically, and components and machines created with Machine Builder can be saved in a template library for reuse.
- The highly flexible and powerful **Entity rules** function can be used as a hub for expanding and customizing Condmaster with customer-unique, event-driven functions, as well as creating custom integrations with other IIoT systems. The function makes it possible to monitor a variety of events and automatically invoke actions – in Condmaster or elsewhere – based on these events.
- The new **Condmaster.NET** web application and downloadable app for iOS and Android can now be used to access Condmaster Ruby data via web browsers on all types of devices. Simplicity is at the core of Condmaster.NET; it presents an intuitive and easily accessible overview of color evaluation and alarms and offers basic analysis functionality. Application-specific, customized dashboards to visualize and monitor process data can be created on request. Furthermore, the Plant Performer function and live display of online measuring units are now part of Condmaster.NET.
- Available for the Intellinova Parallel EN system, the new **Signal Quality Test** is a background process that continuously checks for ski slopes and bias problems. It can also help identify problems with faulty or incorrectly connected transducers.



- Enhancements in **Condmaster Entity Server (CES)** include the centralization of backend functionality, such as system configuration and new, modern and easy-to-use management of databases, licenses, users, and user groups through the new CES Admin Portal. This functionality is OAuth 2.0 compatible and also supports external user directories such as Microsoft Azure AD and Active Directory Federation Services. The introduction of the CES Admin Portal and transition to a scheme with only floating licenses simplifies license management considerably. For Condmaster.NET, no license restrictions apply, meaning that users can log in from any number of web browsers and/or smartphones.



- Extensive further development of the **API interface**, enabling extremely flexible and advanced third-party integration solutions.
- An integral part of Condmaster Entity Server, the **Analytics Engine** has undergone continued development to provide increased data processing and computing capacity, thus paving the way for AI and machine learning implementation.
- Condmaster Ruby 2020 now supports and is delivered with **SQL Server 2019**.
- **More functionality in the platform:** As of the Condmaster Ruby 2020 version, the number of modules is reduced and more functions are thus included in the platform.
- New and **simplified installation** procedure.
- The **built-in web browser** in Condmaster Ruby has been revised. Used primarily for the display of the User Guide, it now also enables users to view Condmaster.NET content from within Condmaster Ruby.
- Condmaster Ruby now offers the possibility to set up Intellinova Parallel EN measurement assignments to be performed only by **manually forced measurement**.
- Global values can now be defined as type 'API', e.g., for integration purposes.
- **LinX** now supports Condmaster Entity Server (CES), such that database connections are made to CES rather than to SQL Server. Furthermore, LinX now also supports **Modbus TCP database values** in addition to raw and evaluated values.

How to upgrade

The upgrade process is straightforward. Condmaster Ruby 2020 is backwards compatible and users of the 2019 or earlier versions install the new software, then transfer the contents of the existing Condmaster database using a safety copy.

Minimum system requirements

- Windows 7 or later
- 1 GHz 32-bit (x86) or 64-bit (x64) processor
- 1 GB of RAM memory
- 15 GB free disc space
- **Microsoft SQL Server 2016 or later**
(see the Condmaster Ruby installation manual for more information)

Note: Microsoft SQL Server 2016 requires Windows 8 (64-bit) or later with at least 1.4 GHz CPU. Condmaster Entity Server (CES) requires 64-bit Windows. LinX (handling the Intellinova Standard and Intellinova Compact online systems) and CES require higher data performance than those specified above.

For more information and recommended system requirements, see the Condmaster Ruby Installation and system administration manual, document no. 72260, and spminstrument.com/products/condmaster/.

