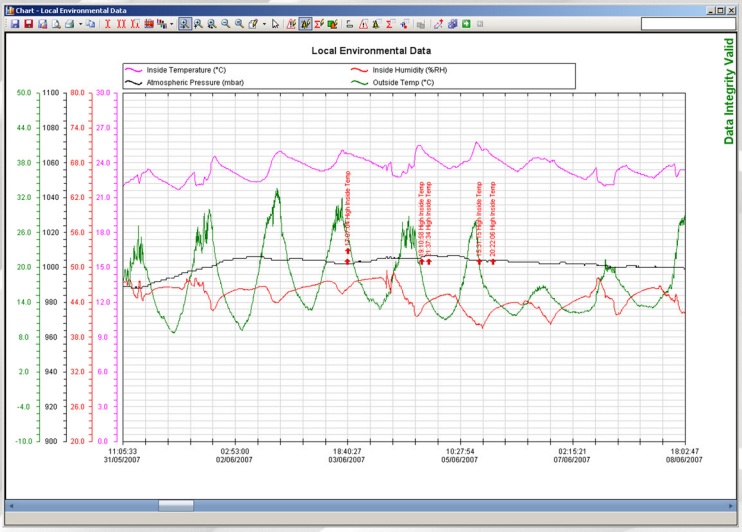
ABB MEASUREMENT & ANALYTICS | DATA SHEET

DataManager Pro RDM500

Advanced data review software



Measurement made easy

Complete management of ScreenMaster data archives

Guaranteed data security
- Automatic validation of data files

Long term data management
- Database storage and management of process data

Information at your fingertips
- Automatic data collection direct from multiple recorders via Ethernet

Secure data distribution
- Create packages of specific process data

DataManager Pro

DataManager Pro is an advanced process data management and analysis application used to store and review data archived by ScreenMaster paperless recorders. Stored data can be displayed in both tabular and graphical format and analyzed using the extensive array of tools provided. A ScreenMaster's archived data can be transferred to DataManager Pro either manually, via the ScreenMaster's memory card, or automatically, via Ethernet communications. DataManager Pro provides automatic, secure, long-term process data storage and enables data to be retrieved quickly when required.

DataManager Pro enables detailed analysis of process data by presenting the data in graphical chart format.

- Data recorded on different ScreenMasters can be combined on a single chart and analyzed side-by-side.
- Once a chart has been configured to display data in the required format, it can be saved as a template. When the template is reopened, the same chart format is presented, complete with any new process data imported to DataManager Pro's database.
- A cursor can be positioned on the chart to display the exact values of the traces at the cursor's position. A second cursor can also be placed on the chart; statistical information on the data between the 2 cursors is then displayed.
- During data analysis, signatures and comments can be added securely to the chart – ideal for approval or verification purposes.

Data analysis

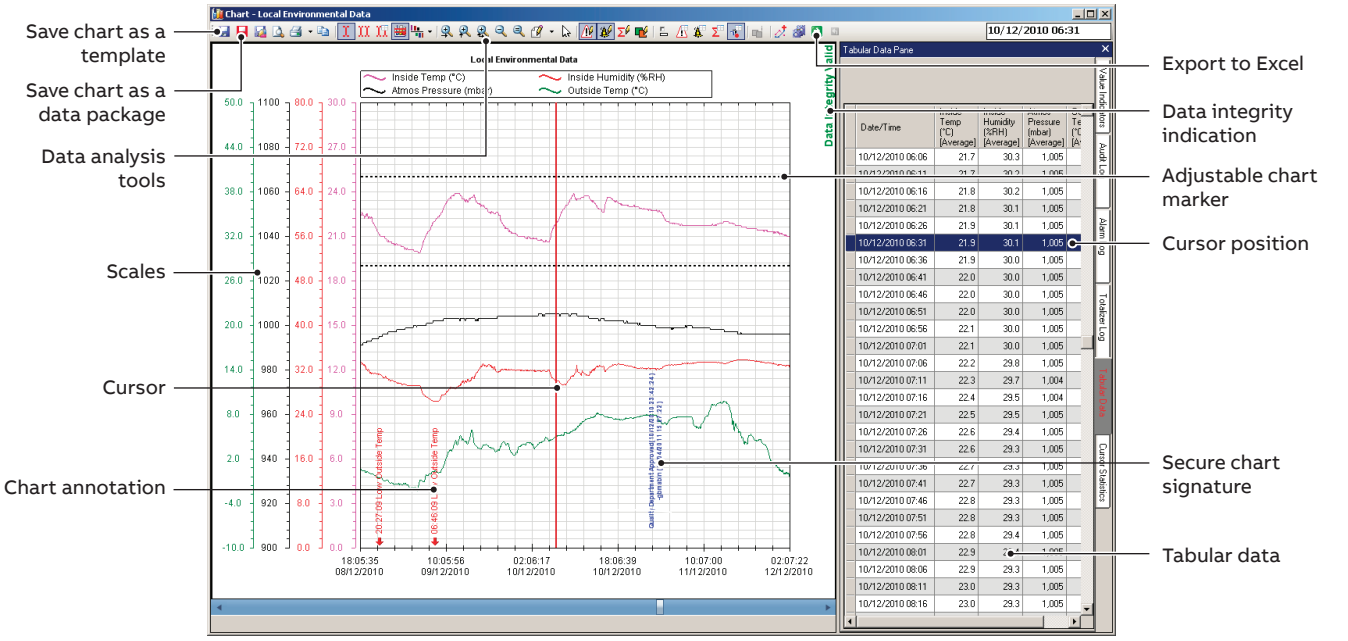


Figure 1 DataManager Pro chart view

...DataManager Pro

Data management

At the heart of DataManager Pro is a secure database.

- Data from any number of ScreenMaster recorders can be imported manually, via a recorder's memory card, or automatically, via Ethernet communications.
- Once imported into the database, data is conveniently and securely held for long-term storage.
- When required, data can be displayed quickly and easily by either opening a predefined chart template or selecting the channels and time period required.

Batch data

A batch record recorded by a ScreenMaster can be instantly analyzed using DataManager Pro.

- Powerful search functionality enables batch records to be located easily and displayed regardless of when, or on which instrument, it was recorded.
- Batches with common attributes (for example, date of manufacture, product type or product line) can be identified easily and charts drawn for side-by-side comparison.
- Batch information entered by the operator at the time the batch was recorded is presented clearly at the base of the chart.

Data distribution

Data from DataManager Pro's database can be exported for use and analysis elsewhere.

- Secure data packages (that maintain the original data file integrity) can be created and passed to another DataManager Pro user for analysis. This feature is ideal for ScreenMaster users who process third-party products as it enables the product owner to be given a package of data relating to the processing of their product and analyze it using their own copy of DataManager Pro. A free-of-charge (unlicensed) version of DataManager Pro is all that is required for such analysis.
- Data can also be exported in Excel spreadsheet format.

Recorder networking

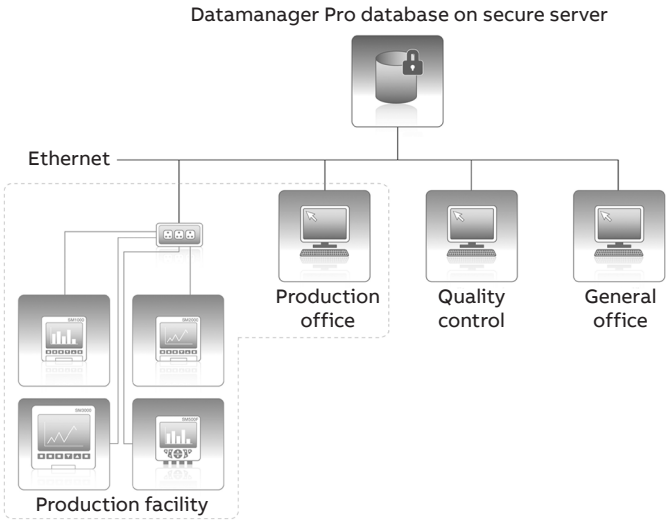


Figure 2 Network diagram

When connected to ScreenMaster recorders via an Ethernet network, DataManager Pro provides excellent security for, and ease of access to, process data.

- DataManager Pro's database can be located on a secure, backed-up network drive:
  - enhances data security
- DataManager Pro can import new data automatically from any number of ScreenMaster recorders on a scheduled basis:
  - ensures the latest process data is always available for review
- When located on a shared network drive, data from DataManager Pro's database is accessible to multiple users:
  - company-wide accessibility to process data speeds up the review and approval process and increases productivity
- DataManager Pro can synchronize the clocks of multiple ScreenMaster recorders using Ethernet communications:
  - enhances the accuracy of side-by-side comparison of process data

Functionality

DataManager Pro can be used either licensed or unlicensed; when used unlicensed, it offers basic functionality only. To enable full functionality, the software must be licensed. Table 1 details the features available in each version.

After the first installation DataManager Pro will work in licensed (full functionality) mode for a 30 day evaluation period.

Feature	Unlicensed (basic functionality)	Licensed (full functionality)
Manual data import	X	X
Scheduled automatic data import via ethernet (FTS)		X
Database data management	X	X
Data quick view	X	X
Chart display	X	X
Tabular display	X	X
Log files display	X	X
Chart printing	X	X
Predefined chart templates		X
Chart signature		X
Create chart package		X
Display chart package	X	X
Export to Excel		X
Batch data search and access	X	X

Table 1 Licensed / Unlicensed features

Minimum system requirements

- 2 GHz Intel™ Pentium™ Dual Core processor or equivalent with 4 GB of RAM
- Windows 7™ SP2 (32 or 64 bit)
  or Windows Server™ 2008
  or Windows 8.1™ Pro (32 or 64 bit)
  or Windows Server™ 2012
  or Windows 10™ (32 or 64 bit) operating systems
- 200 MB of free hard disk space
- 1024 x 768 minimum screen resolution

Compatible products

Datamanager Pro can be used to analyze data from the following products:

- SM series videographic recorders *
- Aztec series analyzers
- Navigator series analyzers

Ordering information

DataManager Pro is available for download from **ABB.com/recorders**

- Single user license – part number RDM500L**
- Multi-user site licence – part number RDM500ML***
- Software CD – part number RDM500CD

Cyber security

This product is designed to be connected to and to communicate information and data via a network interface. It is your sole responsibility to provide and continuously ensure a secure connection between the product and your network or any other network (as the case may be). You shall establish and maintain any appropriate measures (such as but not limited to the installation of firewalls, application of authentication measures, encryption of data, installation of anti-virus programs, etc.) to protect the product, the network, its system and the interface against any kind of security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information. ABB Ltd and its affiliates are not liable for damages and/or losses related to such security breaches, any unauthorized access, interference, intrusion, leakage and/or theft of data or information.

* Recorders manufactured from 2003 onwards

**The purchase of a single-user license authorizes the installation and use of DataManager Pro on a single PC.

***The purchase of a multi-user site license authorizes the installation and use of DataManager Pro on multiple PCs at a single (geographic) site.

A geographic site is defined as a site covered by a single postal address.

Acknowledgements

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