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Technical Information
Field Data Manager software MS20/MS21

PC analysis software for data management and visualization



Application

- Automatic printout, data readout, data storage, secure export, PDF document generation
- Readouts via online interface or from mass storage/ data carrier
- SQL database - tamper-proof data storage
- Online visualization of instantaneous values ("live data")
- Export/import of data
- The following versions of the software are available: Essential version (freeware), Professional Demo version and Professional version. It is possible to switch to the Professional version at any time by entering a valid software ID.

Your benefits

- Reliable process documentation
- Intuitive user guidance and modern interface
- Highest safety through tamper-proof data storage and extensive user management functions
- Reduced data management costs due to data archiving
- Flexibility through SQL database
- Central database
- FDA approval in conjunction with the Advanced Data Manager, Memograph M RSG45

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General information

Field Data Manager (FDM) is a software package that offers centralized data management with visualization for recorded data.

This enables the data of a measuring point to be fully archived, e.g.:
- Measured values
- Diagnostic events
- Analyses
- Event logbook

Device support and functions

The following table shows the range of functionality of the different software versions:

Function	Essential version (freeware)	Professional version (60 days Demo version + 30 days on request)
Supported databases:		
Postgre SQL™	X	X
Microsoft SQL Server™		X
Supported devices:		
Ecograph RSG20		X
Ecograph A RSG22		X
Ecograph C RSG24		X
Ecograph T RSG30	X	X
Ecograph T RSG35	X	X
Memograph RSG10		X
Memograph S RSG12		X
Memograph M RSG40	X	X
Memograph M RSG45	X	X
Memograph CVM40		X
EngyCal RH33		X
EngyCal RS33		X
RA33		X
Liquiline CM44x		X
Liquistation CSFxx		X
Liquiline System CA80xx		X
Supported functions:		
User administration, LDAP protocol		X
Different PCs can access the database simultaneously		X
Data from several devices in one template		X
Automatic readout	X	X
Automatic deletion	X	X
Automatic binary export	X	X
Automatic XLS/CSV and PDF export		X
Export ready for Energy Software		X
Import of ReadWin 2000 data	X	X
Online visualization of instantaneous values ("live data")		X

Function	Essential version (freeware)	Professional version (60 days Demo version + 30 days on request)
E-mail notification		X
Update search		X
iTHERM TrustSens Calibration automatic function	X	X

iTHERM TrustSens Calibration Monitoring

Available in conjunction with Memograph M RSG45 (from firmware version 2.04) and iTHERM TrustSens TM371/TM372.

Memograph M RSG45 application package:
- Up to 20 iTHERM TrustSens TM371/TM372 devices can be evaluated via the HART interface
- Self-calibration data displayed on screen or via the web server
- Generation of a calibration history
- Creation of a calibration certificate as an RTF file directly at the RSG45
- Evaluation, analysis and further processing of the calibration data using "Field Data Manager" (FDM) analysis software

Versions

The following versions of the software are available:
- Essential version: This software version is available free of charge with restricted functionality.
- Professional Demo version: The demo version has the full range of functionality but is valid for 60 days (+30 days on request) only. After a maximum of 90 days without software activation, this version can no longer be run until it is successfully activated.
- Professional version: This version has the full range of functionality and can be purchased using a licensing model.

It is possible to switch from the Essential version (freeware) and the Demo version to the Professional version at any time by entering a valid software ID and then activating the product.

The current software version can be found on the Internet at: www.endress.com/ms20.

A one-time registration on the software portal is required to download the software: https://software-products.endress.com

System requirements

In order to install and operate the FDM software, the following hardware and software requirements must be met:

Hardware requirements for FDM software:
- PC with Pentium™ 4 (≥2 GHz)
- PC with Pentium™ M (≥1 GHz)
- PC with AMD™ (≥1.6 GHz)
- Minimum 1 GB RAM cache
- Minimum 20 GB free hard disk memory
- Minimum screen resolution of 1024 x 800 pixel

Operating system/software for FDM software:
- Microsoft™ Windows™ Server 2019
- Microsoft™ Windows™ Server 2022
- Windows 10™
- Windows 11™
- Windows™ .NET 2.0/3.5

If installing on Microsoft Windows™ servers, only the FDM MS21 multi-user license is recommended.

FDM saves the data in an SQL database. The database can be operated locally or in a network (client/server). The following databases are supported:
- PostgreSQL™ version up to and including version 12.22 (for Essential, Demo and Professional version): You can install and use the free PostgreSQL ™ database included in the download package.
- Microsoft SQL Server™ (for Demo and Professional version): version up to and including version 2022. To set up a login, please contact your database administrator.

Ordering information

Licensing Model

The basic installation of the Professional version of the FDM software includes an interface to the SQL database and a Postgre™ SQL database as well as all main functions. If another supported SQL database (e.g. an already existing installation) is to be used, FDM can also be connected to the existing database.

If the Professional version of the FDM software is to be installed on several workstations, one license is required per workstation.

Remote desktop connections to a Microsoft™ Windows™ Server, for example, are possible only in conjunction with a valid MS21 multi-user license.

MS21 multi-user license: The server distributes the license to the clients.

Ordering information

Detailed ordering information is available from your nearest sales organization www.addresses.endress.com or in the Product Configurator at www.endress.com:

1. Select the product using the filters and search field.
2. Open the product page.
3. Select **Configuration**.

Demo version

The Demo version can be used free of charge and without obligation for 60 days (+30 days on request). The current version of the Field Data Manager software can be found on the Internet at: www.endress.com/ms20

The MS21 multi-user license cannot be tested in demo mode.

Warranty and guarantee

The licensor guarantees that the software product essentially complies with the specifications defined in the relevant documentation for a period of twelve (12) months after delivery.

Scope of delivery

A license letter containing a download link, serial number, and software ID will be dispatched for each license ordered. The software ID is required for installation and activation of the software.

Documentation

The following document types are available in the Downloads area of the Endress+Hauser website (www.endress.com/downloads), depending on the device version:

Document type	Purpose and content of the document
Technical Information (TI)	**Planning aid** This document contains all the technical data on the product and provides an overview of everything that can be ordered with the product.
Brief Operating Instructions (KA)	The Brief Operating Instructions contain basic safety instructions, installation and connection conditions. They do not replace the Operating Instructions.
Operating Instructions (BA)	**Reference document** The Operating Instructions contain the information that is required in the various phases of the life cycle of the product: From product identification, incoming acceptance and storage, to installation, connection, operation and commissioning through to troubleshooting, maintenance and disposal.
Description of device parameters (GP)	**Reference for parameters** The document contains detailed explanations of readable or configurable parameters in the product. The description is aimed at those who work with the product over its entire life cycle and perform specific configurations.

Document type	Purpose and content of the document
Safety instructions (XA)	Safety Instructions for electrical equipment in hazardous areas are supplied with the product depending on the approval. They are an integral part of the Operating Instructions. The nameplate indicates the Safety Instructions (XA) that are relevant to the product.
Supplementary device-dependent documentation (SD/CY/ FY)	Always comply strictly with the instructions in the relevant supplementary documentation. The supplementary documentation is an integral part of the product documentation.



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