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1 Device - Revision Record / What is new?

1.1 Hardware

FMT500-IG Standard

Released Revision	Released Date	Remarks
01.02	27.09.2002	First release
01.03	12.05.2003	Bugfix version
01.04	13.06.2003	Bugfix version
01.05	02.01.2004	Bugfix version

FMT500-IG Ex(Haz.)

Released Revision	Released Datum	Anmerkungen
01.00	06.05.2003	First release
01.01	25.08.2003	Bugfix version

1.2 Software

Released Revision	Released Date	Remarks
01.06	17.07.2003	First release
01.07	25.03.2004	Bugfix version
01.80	07.04.2004	Bugfix version
01.79	30.06.2004	Bugfix version
01.85	02.09.2005	Easy Setup version

2 DTM - Engineer IT Device Type Manager

2.1 Supported devices

FMT500-IG_HART on Firmware Version 1.85 (full functionality), from firmware Version 1.06 to 1.81 partially not usable (see point 6), not usable on Firmware versions below 1.06

2.2 Version record / What is new?

Compatible to device firmware 1.85

Released Version	Released Date	Remarks
01.00.10	08.06.2004	First release
01.01.00	02.09.2005	New features

2.3 Requirements

2.3.1 PC-Hardware / Operating system

Recommended equipment
Intel Pentium III Processor 450 MHz or compatible.
256 MB RAM memory.
300 MB free hard disk space.
Windows 2000 / XP
Internet Explorer 5.0.
Adobe Reader latest Version
full administrator rights

The ABB FDT 1.2 DTM FMT500-HART is released for Windows 2000 and Windows XP (Home / Professional) as PC / Notebook installation..

2.3.2 Frame application / compatibility

The ABB FDT 1.2 DTM FMT500-HART is released for DSV401 (SMART VISION) Release 3.

FDT compatibility was tested with the dtmINSPECTOR Rev. 1.01.21. Therefore the ABB DTM should be usable in all frame applications the requirements of FDT 1.2 requirements. Please read also the respective Frame Application documentation.

2.3.3 Software package contents

The setup files are in the respective DTM sub directory.

- setup.exe
- ReadMe.txt
- ReadMe_de.txt

2.4 Installation and configuration

2.4.1 Installation

- Make sure that the minimum hardware requirements are met.
- Start Windows (with administrator rights!).
- Cancel all running programs.
- Insert CD-ROM.
- Start "Setup.exe" in the DTM\DTM FMT500-HART (Sensyflow iG) directory of the CD or in the folder you choosed for the software uploaded from the Internet.
- Follow the instructions.

2.4.2 Installed file

- Files and directories
For a correct work of this DTM you need the following files in the specified directories:

iG_HART.dtd	...\\V_hub\
IG_DTM_BILD.bmp	...\\Devices\001a\4_001c\
iGHartAlws.dll	...\\Devices\001a\4_001c\
iGHartView.exe	...\\Devices\001a\4_001c\
readme.txt	...\\Devices\001a\4_001c\
readme_de.txt	...\\Devices\001a\4_001c\
DTM FMT500-HART.If	...\\Devices\001a\4_001c\
FMT500_HART_001.chm	...\\Devices\001a\4_001c\
FMT500_HART_049.chm	...\\Devices\001a\4_001c\
Uninst.isu	...\\Devices\001a\4_001c\
IG_HART.svd	...\\svddesc\com_hart\001a\4_001c\
PFile001.htm	...\\svddesc\com_hart\001a\4_001c\
PFile049.htm	...\\svddesc\com_hart\001a\4_001c\
IG_HART.fdt	...\\svddesc\com_hart\001a\4_001c\
Fdt dereg.ini	...\\SVDDesc\com_hart\001a\4_001c\
HartErr.inc	...\\SVDDesc\com_hart\001a\4_001c\
HartSignalCoding.inc	...\\SVDDesc\com_hart\001a\4_001c\
HartUnits.inc	...\\SVDDesc\com_hart\001a\4_001c\
iG_HART.fdt	...\\SVDDesc\com_hart\001a\4_001c\
iG_HART.svd	...\\SVDDesc\com_hart\001a\4_001c\
MfrCodes.inc	...\\SVDDesc\com_hart\001a\4_001c\
PFile001.htm	...\\SVDDesc\com_hart\001a\4_001c\
PFile049.htm	...\\SVDDesc\com_hart\001a\4_001c\
Resources.inc	...\\SVDDesc\com_hart\001a\4_001c\
TrnsCode.inc	...\\SVDDesc\com_hart\001a\4_001c\

ABB_Logo.gif ...\\SVDDesc\com_hart\001a\4_001c\Images\
there ... is the home directory of SmartVision on your computer.

2.4.3 Uninstall instructions

- For uninstalling in the operating system: "Start-> Settings -> Control Panel -> Add/Remove Programs -> Install/Uninstall" -> Select the DTM and Uninstall.
In any case first uninstall all DTMs before uninstalling the frame application SMART VISION.

2.5 Update- / Upgrade instructions

Uninstall is not needed before update / upgrade. It can be handled like a new installation, existing projects will be kept.

Hints regarding new versions may be found under <http://www.abb.com/Fieldbus>

2.6 Known problems and limitations

- If starting of a DTM fails with a runtime error 6 which occurs together with a control SV4_digital.OCX, the PC needs to reboot.
- Inputs in edit boxes have to be finished with CR or TAB to be valid.
- The actual measured values are not displayed in Trend View legend.
- The Trend View does not react (dynamically) on changes of the ranges. The window has to be closed and reopened.
- The Trend View reacts incorrectly on changes to the window size. The window size must not be changed.
- The Trend View does not display units.
- The timebase of the Trend View cannot be changed.
- The Analog Display does not react (dynamically) on changes of the ranges. The window has to be closed and reopened.
- The labels on the Analog Display may overlap when a bad scaling is selected. In that case the window size or the scaling must be changed.
- The deactivation of combo boxes is not reflected in their color.
- The version information in FDT does not display the currently installed version.
- Function and connection cannot be modified simultaneously at the outputs.
- Earlier firmware versions 1.06 to 1.81 allow limited use, further use only with liability exclusion by ABB.

Limitations are as follows:

- The allocation of the measuring displays was modified.
- Analog output functions 0-22 mA and 4-21.6 mA are no longer selectable from the DTM.
- Analog output alarms HIGH and LOW are no longer selectable from the DTM.
- Output connections to INPUT 1 and 2 are no longer selectable from the DTM.
- Output 2 connection to COMMON ALARM is rejected by the device firmware.
- For input 1 and 2, the allocation of the function was modified. Furthermore, functions FREQUENCY and SWITCH are no longer selectable from the DTM.
- For input 1 and 2, the allocation of the polarity was modified.
- Additional limitations for firmware versions 1.06 to 1.07 affect the massflow unit 'SCFS' which can not be chosen. Additionally, when changing the temperature, the hysteresis may be not accepted.

2.7 Getting help / further information

- Press 'F1' for online help. Help concerning the implementation of the DTM in the FDT Frame Application (e.g. SMART VISION, ...) can be found in the respective documentation.

Hints regarding commissioning

- When a device has been connected for the first time, and an upload was done, it is recommended to save all data using the menu file/save as dataset. (database suffix *.dat)
- Initialisation of the DTM for the FMT500:
For starting the DTM, the DTM for the FMT500 as HART device has to be used when creating the project tree. For initialisation the point "More" has to be selected in the menu under "Device". Depending on the operating speed of the PC this could take some seconds.
- Configuration of the FMT500:
The DTM is started by clicking the right mouse key or via the menu point "Device", in each case with "Edit".
Changed data are displayed in blue and underlined. Using the command "Save data to device" these data will be sent to the device.
- In case the DTM will be used with an ABB AC800M controller, a HWD-file needs to be generated for implementation. For instructions refer to the information within the AC800M documentation.

2.8 How to get the Software (driver)?

Please use one of the following ways to get the Software (driver):

- Available on the newest DTM & DSV401 (SMART VISION) CD-ROM
- As download from <http://www.abb.com/Fieldbus>
 - >[select Fieldbus protocol]
 - >[select field device]
 - >[select device group / name]
 - use link read more / downloads
 - > go to flag "Fieldbus & HART Files"
- The Aspect Object (*.afw) online file contains all driver and information. For the *.afw file
 - > go to flag "Downloads"

2.9 Licensing the DTM

The DTM is usable unlimited without any license in every Frame Application.

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www.abb.com/instrumentation

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