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1 Device - Revision Record / What is new?

1.1 Hardware

Released Revision	Released Date	Remarks
01.00	16-April-2003	First release

1.2 Firmware

Released Revision	Released Date	Remarks
01.00	07-Jan-2004	First release

2 DTM - Engineer IT Device Type Manager

2.1 Supported devices

– TB82PH Profibus PA pH, ORP, pION transmitter, Firmware 1.0

2.2 DTM Version record / What is new?

– Compatible to FDT 1.2 frame applications.

Released Version	Released Date	Remarks
01.00.00	14-Nov-2003	First release
01.00.01	30-Mar-2004	– Registration and licensing modifications. – Minor, non-functional changes in Transducer Block screen and Print output.
01.00.02	29-Dec-2005	– Bug fixes for FDT 1.2 compatibility

2.3 Requirements

2.3.1 PC-Hardware, Operating system

- Minimum requirement
 - 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 TB82PH-PA 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 TB82PH-PA is released for DSV401 (SMART VISION) Release 3.

The FDT compatibility was tested with the dtmINSPECTOR Rev. 1.01.21.

Therefore the ABB DTM should be usable in all Frame Applications according the requirements of FDT 1.2.

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

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 root directory of the CD (usually D:\DTM\DTM TB82PH-PA) or in the folder you choose for the software uploaded from the Internet.
- Follow the instructions.

2.4.2 Linking Device/SK2 and SK1 hints

In case you intend to use PROFIBUS PA devices in a system application and you are using a DP/PA coupler allowing a Baud Rate > 93,25 Kbaud, you need to convert the GSD-files of the PA-devices.

The DP/PA Linking Device may be:

- ABB Linking Device LD800P
- P&F coupler SK-2

Following the installation of the DTM on your System, please localize the GSD-file of the respective device. Normally it is stored under the following path:

...\Program Files\SMART VISION\
SVDDesc\COM_DPV1\...*.GSD

The names of GSD-file contain usually the PNO-ID of the supported device.

Example:

The GSD-file for the TB82PHPA is stored in the directory:

...\Program Files\SMART_VISION\SVDDesc\COM_DPV1
_001a_a_5101

Filename: ABB_5101.GSD

Implementation of the new GSD-file:

The converted GSD-file made available by ABB and to find as *GSD *.zip file on the CD-ROM in the device box or on the following Internet address <http://www.abb.com/instrumentation>.

Please rename the original GSD-file

-> e.g. from 'ABB_xxxx.GSD' to 'ABB_xxxx.BAK'

Following this, rename the new GSD-file (e.g. YP00xxxx.GSD) with the same name than the original GSD-file (ABB_xxxx.GSD)

Restart setup:

Please restart the DTM setup with 'setup.exe'

2.4.3 Installed files

TB82PHPA_DTM.dll
TB82PHPA_DTM.exe
Abb_5101.gsd
Tb82ph.fdt
Tb82ph.svd
TB82PHPA_DTM.chm
82PH_001.htm
ReadMe.txt

2.4.4 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

- Uninstallation is not needed before update / upgrade. It can be handled like a new installation, existing projects will be kept.
- By using a DP/PA Linking Device allowing a DP Baud Rate > 93,25 kbaud:
When updating / upgrading the PROFIBUS PA-DTM it is necessary to re-integrate the converted GSD-file for Linking Devices in the PA-DTM again!
Workflow see chapter "Linking Device/SK2 and SK1 hints"
- 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.
- When the DTM is used in ABB Symphony/Freelance, preconfigured device data cannot be automatically sent to the transmitter in Planning (configuring) phase. This is because an online connection to the transmitter is not available during the Planning phase to perform a device version check. Therefore, for configuration and loading of data, the DTM has to be started during the startup (commissioning) phase and an online connection to the transmitter established.
- When a data sent to the device from the DTM is not accepted by the device, an error window is not displayed. The user should consider the data to be un-acceptable to the device, when the data continues to be indicated as a modified value (blue underlined text) following a "Save to device" (download) operation.
- During a "Save to device" (download) operation, the progress bar seems to be locked at some point, even though the download is in progress.

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

- Initialization of the DTM for the TB82PH:
To start the DTM, the TB82PH Profibus-PA device DTM has to be listed in the project tree. To initialize the DTM, right click on the device DTM or use the Device menu on the frame application if applicable, and click on the "More" menu option. Select a Data Set if applicable, or cancel this step.
Depending on the operating speed of the PC, these steps will vary in processing time.
- Configuration of the TB82PH
Right click on the device DTM again or use the Device menu on the frame application, and click on the "TB82PH Main" main option. After establishing a connection with the device by clicking on the "Connect" toolbar icon, upload all the data from the device clicking on the "Load from Device" toolbar icon. When data is modified in the DTM, it is displayed in blue and underlined. Click on the "Save to Device" toolbar icon to send changed parameters to the device.
- Remarks on the configuration of the TB82 PA transmitters.
When saving data to the transmitter, ensure power to the transmitter is maintained during the entire save operation.

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
 - > 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.

**ABB has Sales & Customer Support
expertise in over 100 countries worldwide.**

<http://www.abb.com/instrumentation>

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