Supplementary information

3KDE193101R3901 Rev. B

Driver FV4000_FS4000-HART

Vortex-/Swirl Flowmeter

Content

1 Device - Revision Record / What is new?

1.1 Hardware

– All released Hardware with revision "A.xx"

1.2 Software

Released Revision	Released Date	Remarks
A.15	10/2001	Relaunched bugfix, older versions withdrawn
A.16	9/2002	Extended version for saturated steam calculation
A.17	07/2004	Bugfix

2 DTM (Device Type Manager)

2.1 Supported devices

- FV4000 (TRIO-WIRL V)
  Vortex Flowmeter   Models VT4000 / VR4000
- FS4000 (TRIO-WIRL S)
  Swirl Flowmeter   Models ST4000 / SR4000

  both with software version A.10 - A.17

2.2 Version record / What is new?

Compatible with FDT 1.2 frame applications.

Released Version	Released Date	Remarks
01.00.43	23.01.2003	First release
01.01.01	09.02.2004	FDT1.2 compatible
01.01.01	08/2005	Silent setup implemented
01.01.01	31.05.2006	Bugfix - new svd file (Revision 3.0) - new Install shield component

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 DTM FVS4000-HART is released for Windows 2000 and Windows XP (Home / Professional) as PC / Notebook installation.

2.3.2 Frame application / compatibility

The ABB DTM FVS4000-HART 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

– 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\disk1 (usually
  D:DTM\DTM FVS4000-HART (TRIO-WIRL)\disk1) or in the folder
  you chose for the software uploaded from the Internet.
– Follow the instructions.

2.4.2 Installed files

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 DSV401 R3 (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

– Entries in edit boxes have to be acknowledged by Enter or TAB
  to be valid.
– If the selected lower alarm limit is larger than 0%, errors in colored
  scale may be possible
– Following parameters are not accessible from within the DTM,
  using measurement transmitters with software revision A.10 :
  DSP-parameter:
    - DSPBootpage,Fmin,Fmax,FreqSpecBalance,
      BPAverdamp,GainMax
  VIB-parameter:
    - GainVibTrigger, InputMin,
      High/LowDisGain, High/LowDisFreq
      VibQvFactor,InputSelect
– Following parameters are not accessible from the DTM, using
  measurement transmitters with software revision A.10 and A.11:
  Temp-parameter:
  - Tempinterval

– 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.
– If the DTM crashes by a "division by zero" using the analog display
  in a Symphony/Melody AC870P environment, the PC has to be re-
  booted.
– Valid for FDT frame applications only:
  – TAG cannot be set via a DTM.
    In DSV401 R3 (SMART VISION) this limit does not apply.
– DTM cannot switch to Offline mode if working with Online Applica-
  tion. Device has to be disconnected first and then the DTM can be
  switched to Offline mode only.
  In DSV401 R3 (SMART VISION) this limit does not apply.
– It could happen that the list of available functions for a DTM in the
  frame application does not get updated. If that happens, click on
  "New project" in the frame and when prompted to save click on
  "Cancel". The DTM menu with all functions in the frame will be
  available again.
  In DSV401 R3 (SMART VISION) this limit does not apply.

2.7 Getting help / further information

– Press "F1" for online help. Help concerning the implementation of
  the DTM in the system environment (e.g. SMART VISION,
  AC800F, CMC60, CMC70) can be found in the respective
  documentation.

Hints regarding commissioning

– When a device has been connected for the first time, and an up-
  loadwas done, it is recommended to save all data using the menu
  file/save as dataset. (database suffix *.dat)
– Initialisation of the DTM for the FV4000_FS4000:
  For starting the DTM, the DTM for the FV4000_FS4000 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 FV4000_FS4000:
  The DTM is started by clicking the right mouse key or via the menu
  point "Device", in each case with "Edit".
  When an online conection has been established it is now
  reccomended to make an upload.
  When a device has been connected for the first time, and an
  upload has been done, it is recommended to save all data using
  the menu file/save as dataset. (database suffix *.dat)

2.8 How to get the Software (driver)?

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

• Available on the newest DSV4xx (SMART VISION) & DTM
  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 without any license in every Frame Application.

– Following the installation the ABB DTM runs 90-days in demo mode (full functionality) and needs to be purchasing within this period, when the storage of data on a PC / Notebook being requested.

– By purchasing the DSV401 R3 (SMART VISION) single PC license the ABB DTM is also operable without restriction and does not have to be ordered separately!

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