Supplementary Information
3KDE194001R3901 Rev. D

Driver CoriolisMaster FCM2000,
FCB3xx, FCT3xx, FCH3xx-HART
Mass Flowmeter

Content

*) DTM400 Bundle Supplement Info is available on the data medium \documentation or latest in www.abb.com/fieldbus. Enter here in the search field following No. "3KXD801400R3901".

1 Device - Revision Record / What is new?

1.1 Hardware

1.1.1 FCM2000

Released Revision	Released Date	Remarks
A	01/2000	First release
B	05/2006	New external FRAM storage medium with 8 kB. Improved temperature measurement.
C.1x	04/2009	New hazardous area concept. New max. fluid temperature of 200 °C.

1.1.2 FCB3xx, FCT3xx, FCH3xx

Released Revision	Released Date	Remarks
00.01.00	03/2012	First release

1.2 Software

1.2.1 FCM2000

Released Revision	Released Date	Remarks
A.1x	01/2000	First release
A.2x	07/2003	Function enhancement
A.30	11/2003	Function enhancement
A.34	12/2004	Design enhancement (not DTM relevant)
A.4x	05/2006	Function enhancement
B.1x	02/2007	Functional enhancement
B.2x	10/2007	Current output adapt to NE43
B.3x	11/2008	Functional enhancement
C.1x	04/2009	New hazardous area concept. New max. fluid temperature of 200 °C.

1.2.2 FCB3xx, FCT3xx, FCH3xx

Released Revision	Released Date	Remarks
00.01.00	03/2012	First release

2 DTM - Engineer IT Device Type Manager

2.1 Supported devices

2.1.1 CoriolisMaster

- FCM2000 – MC2
- FCM2000 – MS2
- FCM2000 – ME2
- FCB3xx
- FCT3xx
- FCH3xx

2.2 Version record / What is new?

2.2.1 Compatible with FDT 1.2 frame applications.

Released Version	Released Date	Remarks
01.03.00	23.03.2003	First release
01.04.01	09.02.2004	Adapt to ABB DCS, PLC and FDT1.2 frame applications
01.04.01	08.2005	Silent setup implementation
01.04.02	07.2012	Bugfix

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 6.0.

   Adobe Reader latest version

   full administrator rights

The ABB FDT 1.2 DTM FCM2000-HART is released for Windows 2000 and
Windows XP (Home / Professional) as PC / Notebook installation.

2.3.2 Frame application / compatibility

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 DTM\DTM FCM2000-HART directory of the CD or in the folder you choosed 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 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

- Measured values for flow (mass and volume) are given by the device as positive values for flow and reverse flow.
- Entries in edit boxes have to be acknowledged by Enter or TAB to be valid.
- In the trend display the current measured values are not shown in the legend.
- An automatic loading of preconfigured data to the transmitter from Symphony/Freelance is not possible during planning phase as only with active DTM and online connection to the transmitter a complete plausibilisation of the device version is possible. For configuration and loading of data the DTM therefore has to be started during start- up phase and an online connection has to be established.

– 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.

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.

2.8 Hints regarding commissioning

– Initialisation of the DTM for the FCM2000:

For starting the DTM, the DTM for the FCM2000 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 FCM2000:

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)

2.9 How to get the Software (driver)?

Please use one of the following ways to get the Software (driv-er):

• 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"

2.10 Licensing the DTM

– The DTM is usable without any license in any frame application.

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

– By purchasing the DSV401 (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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3 EDD (Electronic Device Description)

3.1 Supported devices

3.2 EDD Version record / What is new?

Released Version	Released Date	Remarks EDD
00.01	Feb. 2000	First release
00.06	March 2014	Bugfix version

3.3 Requirements

3.4 Frame application / compatibilty

3.5 Installation and configuration

Start your Frame application and follow the instructions.

3.6 Known problems and limitations

3.7 Getting help / further information

3.8 How to get the Software (driver)?

Please use one of the following ways to get the Software (driver):
• Available on the newest CD-ROM / disc in the field device box.
• The latest Software (driver) and "Supplementary Information" at one time with hints regarding new versions, known problems and limitations, etc. may be found:
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"

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