

Driver TTX200-HART

Temperature Transmitter

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*) DTM500 Bundle Supplement Info is available on the data medium \documentation or latest on www.abb.com/fieldbus.
Enter here in the search field following No. "3KXD801500R3901".

1 Device - Revision Record - What is new?

1.1 Hardware

1.1.1 TTH200-HART

Released Revision	Released Date	Remarks
01.06	Jan 2009	First release
01.07	Dec 2012	Reduced C
01.12	July 2013	Same function, Hardware components updated
01.13	Sep. 2016	Same function, Hardware components updated
01.15	Nov. 2017	Same function, Hardware components update
02.00	Feb. 2021	First release - new electronics platform with enhanced NAMUR functionality

1.1.2 TTR200 - HART

Released Revision	Released Date	Remarks
01.01	May 2008	First release
01.07	Dec 2012	Reduced C
01.12	July 2013	Same function, Hardware components updated
01.13	Sep. 2016	Same function, Hardware components updated
01.15	Nov. 2017	Same function, Hardware components updated

1.1.3 TTF200 – HART

Released Revision	Released Date	Remarks
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01.15	Nov. 2017	Same function, Hardware components updated
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1.2 Software

Released Revision	Released Date	Remarks
01.00.01	May 2008	First release TTR200
01.00.02	Jan 2009	First release TTH200
01.00.06	Jan 2010	TTH200 & TTR200: SIL2 & TC Type E enhancement: -270°C
01.00.07	July 2011	Sensor Diagnostic Improvement Operation Hours Counter Bugfix
02.01.00	July 2013	Hardware Revision - TTH200 - HART >= 01.12 - TTR200 - HART >= 01.12 - TTF200 - HART >= 1.15
03.00.00	Feb 2021	Compatible with hardware 02.xx
03.00.01	May 2021	Bug Fix – HMI easy setup menu
03.01.00	Jan 2022	New device type code, Availability of SIL

1.3 Device

Released Revision	Released Date	Remarks
02	January 2009	First release
03	Feb 2021	HART 5
04	May 2021	HART 7
05	Jan 2022	Software version 03.01.xx, HART 5
06	Jan 2022	Software version 03.01.xx, HART 7

1.4 Cyber Security info

1.4.1 ABB recommendation

It is recommended to use at least an anti-malware solution wherever the product is deployed.

1.4.2 Disclaimer

This product is designed to be connected to and to communicate information and data via a network interface. It is user’s sole responsibility to provide and continuously ensure a secure connection between the product and user’s network or any other network (as the case may be). User shall establish and maintain any appropriate measures (such as but not limited to the installation of firewalls, application of authentication measures, encryption of data, installation of anti-virus programs, etc) to protect the product, the network, its system and the interface against any kind of security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information. ABB Ltd and its affiliates are not liable for damages and/or losses related to such security breaches, any unauthorized access, interference, intrusion, leakage and/or theft of data or information.

2 DTM (Device Type Manager)

2.1 Supported Devices

- Temperature transmitter DIN Rail mounted TTR200-HART with HW-Version 01.01 and SW-Version 01.00.01 or higher
- Temperature transmitter Head mounted TTH200-HART with HW-Version 01.01 and SW-Version 01.00.01 or higher
- Temperature transmitter Head mounted TTF200-HART with HW-Version 01.01 and SW-Version 01.00.01 or higher

2.2 Hash code

Hash code of 3KXT200200S0202_DTM_TTx200-HART.zip

726E01F9EFECA90B7DC24A076D94A7CA94B4B33E6694946A6DDB6C477B2F3F34

2.3 DTM (driver) Version record - What is new?

Released Version	Released Date	DTM LIBRARY Version	List of UIPs	Remarks DTM
01.00.00	May 2008	≥ 2.00.3x P5		First release DTM400

05.00.00	May 2011	> 05.03.00 / > 05.00.17		First release DTM500 Version 05.xx.xx
05.00.01	Aug 2012	> 05.04.00 / > 05.00.18		- DTM500 - Improve- ments and Bugfix
05.00.02	Nov. 2014	≥ 05.05.00 / ≥ 05.00.21		- New DTM library for Compatibility with Win 8.1 and Win 2012- and 64-bits Operating systems - Bugfixes
05.00.03	Nov. 2016	≥ 05.05.00 / ≥ 05.00.22		- New DTM library for “Observer role” in DCS
07.04.01	Dec 2020	DTM 700	Import Export UIP Print UIP	- Enhancements for TTX 200 device (HART 7)
07.06.01	Feb 2023	DTM 700	Import_Export_UIP 1.0.1 Print_UIP 1.0.2	- New Device type id 1A4D
07.06.02	Sept 2025	DTM 700	TTX200_ImportExportUIP.1.0.2.uip TTX200_PrintUIP.1.0.2.uip	Enhancements in fixed point table and method handling

- The device DTM supports the standard FDT 1.2/1.2.1.

2.4 Supported Languages

The device DTM supports English

2.5 Requirements

2.5.1 PC-Hardware, Operating system

DTM500

- See DTM500 Bundle Supplement Info*)

DTM700

- – Minimum requirement
- 2-GHz-Processor or better with 32 Bit (x86) or 64 Bit (x64)
- 1 GB RAM or better
- 500 MB free hard disk space
- 1024 x 768 screen resolution recommended

- Microsoft Windows 7 Service Pack 1, Windows 8.1 & Windows 10 (32 Bit / 64 Bit variants supported) , Windows 11 (64 Bit)
- Microsoft .NET Framework 4.6.1
- Microsoft Visual C++ 2015 Redistributable - 14.0.23026
- Microsoft Internet Explorer 6.0 or higher
- Adobe Reader latest version

2.5.2 Frame application / compatibility

DTM 500

- See DTM500 Bundle Supplement Info*)

DTM700

- The ABB DTM should be usable in all frame applications according to the requirements of FDT 1.2.
- Refer the corresponding frame application documentation and Manuals

2.6 (Un)Installation and configuration

2.6.1 Installation

DTM 500

See DTM500 Bundle Supplement Info*)

DTM700

- Ensure that the minimum hardware requirements are met.
- Start Windows (login with administrator rights!).
- Cancel all active applications.
- Unpack the DTM zip file available as download from www.abb.com/Instrumentation
- Start the installation Wizard as follows:
 - Right hand Mouse Click with “run as Administrator”
 - Version 07.04.01(Device type 1A0D):
<drive>:\..\3KXT200200S0202_DTM_TTx200-HART\MID-001A_DID-1A0D\Revision_07.04.01\DTMTTx200HART.exe
 - Version 07.06.02(Device type 1A4D):
<drive>:\..\3KXT200200S0202_DTM_TTx200-HART\MID-001A_DID-1A4D\Revision_07.06.02\DTMTTx200FamilyHART.exe
- Follow the instructions.

2.6.2 Uninstall instructions

DTM500

See DTM500 Bundle Supplement Info*)

DTM700

In the operating system: Start -> Settings -> Control Panel -> Add/Remove Programs -> Select the DTM and Uninstall

2.7 Update- / Upgrade instructions

DTM500

See DTM500 Bundle Supplement Info*)

DTM700

– If the previous version of the DTM700 i.e. 07.06.01 is already installed, then uninstall the DTM and install this version 07.06.02 as a fresh installation. Only in case of upgrade from DTM500 to DTM700, uninstallation of DTM500 to be followed as specified in DTM500 Bundle supplementary In-formation document before proceeding with DTM700 installation.

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

2.8 Known problems and limitations

DTM500

Additionally, to the common hints in the DTM500 Bundle Supplement Info*) attached the device driver specific hints.

DTM700

-TTX200 v 07.04.01: Offline Menu configuration issue- Work Around: ImportExport UIP to be used in DTM

-Import Export UIP issue in 800xA system

- Both DTM version 05.00.03 and 07.04.01 should be installed to ensure compatibility.

- Device revision 4 is incompatible with the DTM for device revision2

-TTx200 Family HART:

1. DTM connection states are not updated – Communication DTM shall provide updated communication states on disturbed, aborted, standby, connected, disconnected.
2. DTM is not tested with Symphony Harmony due to FDT issue – working with Harmony team to resolve.
3. Multiple DTMs going online is not possible in 800xA - DCS specific issue.
4. In System 800xA Ver. 6.1.1.1 after performing an Download- Communication gets disabled. Workaround- Enable Communication once again.(issue not observed in 800xA Ver. 6.2)

2.9 Getting help / further information

Press 'F1' for DTM online help.

Help concerning the integration of the DTM in the FDT frame application can be found in the respective documentation of the frame application.

2.10 How to get the latest information & software?

The latest device driver Supplement Info & software (driver) is available on www.abb.com/fieldbus:

- latest information [field device protocol dependent]
- latest info (download) [device type dependent]
 - Driver description
 - Software [driver type dependent]

2.11 Licensing the DTM

DTM500: See DTM500 Bundle Supplement Info*)

DTM700: none

3 EDD (Electronic Device Description)

3.1 Supported devices

Temperature transmitter TTX200 series

3.2 Hash Code

BA5B632CC068B6DCFE2C1304C739010BBE30740CD502119C31BDE64E23C84C77

3.3 EDD Version record - What is new?

3.3.1 Device Type ID: 000D

Released Version	Released Date	Remarks	Hash Code(.fm8)
02 02	April 2009	General EDD first Release HART5	NA
02 04*	July 2017	*Inside FDI-Package HART5	NA

03 01	Sep 2020	Enhancement for device HART 5	AE8A4590AFD79D57E96795BB8B5 429641D2B07834E88BB1BE028D0 C857F0DFF6
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3.3.2 Device Type ID: 1A0D

Released Version	Released Date	Remarks	Hash Code(.fm8)
04 01	Aug 2020	Enhancement for device HART 7	4910F8B8F29EABA463ECEB4C49C 155BE802FEA90B6F186BE414420A 5D8C5AECC

3.3.3 Device Type ID: 1A4D

Released Version	Released Date	Remarks	Hash Code(.fm8)
06 01	March 2022	New device type code - HART 7 Device 06	DC8DCA816A3864F48DA98E091F9 00C13263C4FBD1165AFBF6687552 2F008B304
06 02	April 2025	Enhancements in fixed point table and bug fixes	2BD448E161A31FE6DA002C0808B DD49F48F938E95FEC9491F14B1A0 DC55C46BD

3.3.4 Device Type ID: 004D

Released Version	Released Date	Remarks	Hash Code(.fm8)
05 01	March 2022	New device type code - HART 5 Device 05	142889DA189213C256E8C388D0F8 AD2F2E82E3180E9A70C004644BC 576BA904D
05 02	April 2025	Enhancements in fixed point table and bug fixes	DFBE679A6DA1B76611C0EAB954E F65D4E95A7B70873BBB7F8A074E7 C78F184BD

3.4 Supported Languages

The device EDD supports English, German

3.5 Requirements

Compatible to IEC61804-3, -4, -5 Electronic Device Description Language (EDDL)

3.6 Remove / import and configuration

Start your EDD Host application and follow the instructions.

3.7 Known problems and limitations

EDD versions 02.04, 03.01 and 04.01 should be installed to ensure compatibility with HW:01.XX and HW:02.XX, software 01.03.XX.

02.XX and 03.00.XX

- Device revision 4 is incompatible with the EDD for device revision 2
- Device revision 3 is incompatible with the EDD for device revision 2

3.8 Getting help / further information

Help concerning the integration of the driver in the frame application can be found in the respective documentation of the frame application.

Use mouse over for field hints and tooltips..

4 FDI (Field Device Integration)

FDI Package (EDD based)

4.1 FDI Device Package Version record- What is new?

4.1.1 Device Type ID: 000D

Released Date	Package Version	EDD Released Version (Dev Rev)	Attachment (revision)	UIP Released Version (00.00.00), Winx	UIP Changed UIP file count	Remarks (EDD. Attachment, UIP)
Nov. 2017	01.00.00	02 04	TTX200_256x256.png, OI_TTH200_EN_A01.pdf	None	No	First Release
Sep 2020	03.01.00	03 01	OI_TTH200_EN_C.pdf DS_TTH200_EN_D.pdf	None	No	HART 5

4.1.2 Device Type ID: 1A0D

Released Date	Package Version	EDD Released Version (Dev Rev)	Attachment (revision)	UIP Released Version (00.00.00), Winx	UIP Changed UIP file count	Remarks (EDD. Attachment, UIP)
Aug 2020	04.01.00	04 01	None	None	No	HART 7

4.1.3 Device Type ID: 1A4D

Released Date	Package Version	EDD Released Version (Dev Rev)	Attachment (revision)	UIP Released Version (00.00.00), Winx	UIP Changed UIP file count	Remarks (EDD. Attachment, UIP)
Mar 2022	06.01.00	06 01	OI_TTH200_EN_D.pdf CI_TTH200_EN_D.pdf DS_TTH200_EN_D.pdf	None	No	HART 7

April 2025	06.02.00	06 02	OI_TTH200_EN_D.pdf CI_TTH200_EN_D.pdf DS_TTH200_EN_E.pdf	None	No	Enhancements in fixed point table and bug fixes
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4.1.4 Device Type ID: 004D

Released Date	Package Version	EDD Released Version (Dev Rev)	Attachment (revision)	UIP Released Version (00.00.00), Winx	UIP Changed UIP file count	Remarks (EDD, Attachment, UIP)
Mar 2022	05.01.00	05 01	OI_TTH200_EN_D.pdf CI_TTH200_EN_D.pdf DS_TTH200_EN_D.pdf	None	No	HART 5
April 2025	05.02.00	05 02	OI_TTH200_EN_D.pdf CI_TTH200_EN_D.pdf DS_TTH200_EN_E.pdf	None	No	Enhancements in fixed point table and bug fixes

4.2 Supported Languages

The device Package supports English, German

4.3 Requirements

FDI Technology Version 1.3.x

4.4 Remove / import and configuration

Start your FDI Host application and follow the instructions.

4.5 Update / Upgrade instructions

Replace over older package.

4.6 Known problems and limitations

- FDI packages version 01.21, 03.01 and 04.01 should be installed to ensure compatibility with HW:01.XX and HW:02.XX, software 01.03.XX, 02.00.XX and 03.00.XX
- Device revision 4 is incompatible with the FDI package for device revision 2
- Device revision 3 is incompatible with the FDI package for device revision 1

4.7 Getting help / further information

Help concerning the integration of the Package in the FDI frame application can be found in the respective documentation of the FDI tool. Use mouseover for field hints and tooltips.

5 How to get the latest information & software?

The latest device driver Supplement Info & software (driver) is available on www.abb.com/measurement

Contacts

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ABB Measurement & Analytics

For your local ABB contact,

visit: abb.com/contacts

For more product information,

visit: www.abb.com/measurement

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