

# Driver TTX300-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](http://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 Device Type ID: 1A4B

Released Revision	Released Date	Remarks
01.05	May 2006	First release
01.06	April 2007	New Features
01.07	Dec. 2012	Reduced C <sub>i</sub>
02.00	Feb 2021	First release - New electronics platform with enhanced NAMUR functionality

## 1.2 Software

Released Revision	Released Date	Remarks
01.00.xx	May 2006	First release
01.01.xx	April 2007	Safety, redundancy, dirt monitoring
01.01.08	July 2011	Sensor Diagnostic Improvement Operation Hours Counter Bugfix
01.03.00	Dec. 2015	Activate dip switch for HART7 or HART5
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
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01	May 2006	Software version 01.00.xx
02	April 2007	Software version 01.01.xx
03	Feb 2021	Software version 03.00.xx, HART 5
04	Feb 2021	Software version 03.00.xx 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 TTH300-HART / TTF300-HART / TTF350-HART with HW-Version 01.05, SW-Version 01.01.xx and Device Version 02 or higher.
- TTH300 Head-mounted transmitter
- TTF300Field device
- TTF350Field device

## 2.2 Hash Code

4B61B6C2E658284C9C4DA87B0876593070A2CBCA46834284E60A172E6623D6AE

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

### 2.3.1 Device Type ID: 1A4B

Released Version	Released Date	DTM LIBRARY Version	Remarks DTM
01.00.00	July 2006	≥ 2.00.3x P5	- First release - Supports FDT1.2 Part of the DTM400 bundle
01.01.07	April 2007	≥ 2.00.3x P5	Support of SW-Vers. 01.01.xx
01.01.08	Dez. 2007	≥ 2.00.3x P5	Bug Fix / external cold junction
05.00.07	Nov. 2009	≥ 05.00.02 / ≥ 05.00.13	- Supports also FDT1.2.1 - New GUI Part of the DTM500 bundle
05.00.09	Oct. 2010	≥ 05.02.00 / ≥ 05.00.16	- DTM500 Library enhancements - Driver bug fix
05.00.10	May 2011	≥ 05.03.00 / ≥ 05.00.17	- DTM500 Library enhancements Improvements and Bugfix
05.00.11	Aug 2012	≥ 05.04.00 / ≥ 05.00.18	- DTM500 Library enhancements Improvements and Bugfix
05.00.12	July 2013	≥ 05.04.00 / ≥ 05.00.20	- New 800xA HART Read Only Option
05.00.13	May 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

05.00.14	May 2015	≥ 05.05.00 / ≥ 05.00.21	Bugfixes HART5 without HART7 commands
05.00.15	Jan. 2017	≥ 05.05.00 / ≥ 05.00.22	– Bugfixes – Additional support of 2 variants (HART5 or HART7) New DTM library for “Observer role” in DCS
07.04.01	Dec 2020	DTM 700	HART 7 Compatible with hardware 02.xx, Device revision 04
07.06.01	Dec 2022	DTM 700	– Device revision 06 – Device Type code update 4B DTM name changed “DTMTTx300Fami- lyHART”
07.06.02	April 2025	DTM 700	Enhancements in fixed point table and bug fixes

- The device DTM supports the standard FDT 1.2.

## 2.4 Requirements

### 2.4.1 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 & Windows 11 64 Bit variants supported
- 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

## 2.4.2 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

## 2.5 (Un)Installation and configuration

### 2.5.1 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](http://www.abb.com/Instrumentation)
- Start the installation Wizard as follows:
- Right hand Mouse Click with “run as Administrator”
- Version 07.06.02(Device type 1A4B):  
<drive>:\..\3KXT200000S0202\_DTM\_TTx300-HART.zip\3KXT200000S0202\_DTM\_TTx300-HART\MID-001A\_DID-1A4B\Revision\_07.06.02\DTMTTx300FamilyHART.exe
- Follow the instructions.

### 2.5.2 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

## 2.6 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 [www.abb.com/Fieldbus](http://www.abb.com/Fieldbus)

## 2.7 Known problems and limitations

DTM500

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

DTM700

Offline Menu configuration issue in DTM V 07.04.01: ImportExport UIP to be used in DTM -ImportExport UIP issue in 800xA system

Both DTM version 05.00.22 and 07.04.01 should be installed to ensure compatibility.  
- Device revision 4 is incompatible with the DTM for device revision 2  
- Device revision 6 is incompatible with the DTM for older device revisions

Upgrade won't work from version 07.06.01 to 07.06.02 versions or higher for DTM700. Please remove V 07.06.01 and install V 07.06.02 or higher as a fresh installation.

## 2.8 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.

## 2.9 How to get the latest information & software?

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

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

## 2.10 Licensing the DTM

DTM500: See DTM500 Bundle Supplement Info\*)

DTM700: none

# 3 EDD (Electronic Device Description)

## 3.1 Supported devices

Temperature transmitter TTX300 series

## 3.2 EDD Version record - What is new?

### 3.2.1 Device Type ID: 1A4B

Released Version	Released Date	Remarks
01 02	Nov. 2006	First Release HART5
02 03	Nov 2007	Registered on HCF website (general) HART5
02 04*	Jan 2008 (PDM)	Host specific optimizations <b>PDM</b>
02 04	Feb 2014	(general) Bug Fix for O/P Current simulation HART5
02 05*	Nov 2014	(general) Bug Fix for Sensor calibration <b>PDM</b>
02 08	Dec. 2017	HART5
02 21 02 15 hex	Dec. 2017	HART7
03 01	Sep 2020	HART 5 Compatible with HW02.XX, Device 03
04 01	Jul 2020	HART 7 Compatible with HW02.XX, Device 04
05 01	Jan 2022	New device type code - HART 5 Device 05



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06 01	Jan 2022	New device type code - HART 7 Device 06
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### **3.3 Supported Languages**

The device EDD supports English, German

### **3.4 Requirements**

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

### **3.5 Remove / import and configuration**

Start your EDD Host application and follow the instructions.

### **3.6 Known problems and limitations**

- EDD versions 02.21, 02.08, 03.01 and 04.01 should be installed to ensure compatibility with HW:01.XX and HW:02.XX, software versions 01.03.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 1

### **3.7 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: 1A4B

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)
March 2016	01.00.00	02 06	TTX300_256x256.png, OI_TTF300_EN_F.pdf, OI_TTH300_EN_D.pdf	none	no	First release HART5
Nov. 2017	01.01.00	02 07	TTX300_256x256.png, OI_TTF300_EN_F.pdf, OI_TTH300_EN_D.pdf	none	no	HART5
Nov. 2017	01.21.00	02 22 02 16 hex	TTX300_256x256.png, OI_TTF300_EN_F.pdf, OI_TTH300_EN_D.pdf	none	no	HART7
Sep 2020	03.01.00	03 01	OI_TTH300_EN_F.pdf Img_TTF300_content.png DS_TTH300_EN_F.pdf COM_TTX300_HART_EN_C. pdf	none	no	HART 5
Jul 2020	04.01.00	04 01	1A0B04_fdi.pdf Img_TTF300_content.png DS_TTH300_EN_F.pdf OI_TTH300_EN_F.pdf	none	no	HART 7
Jan 2022	05.01.00	05 01	OI_TTH300_EN_F.pdf Img_TTF300_content.png DS_TTH300_EN_F.pdf COM_TTX300_HART_EN_C. pdf	none	no	HART 5
Jan 2022	06.01.00	06 01	Img_TTF300_content.png DS_TTH300_EN_F.pdf OI_TTH300_EN_F.pdf	none	no	HART 7
May 2022	02.09.00	02 09	TTX300_256x256.png, OI_TTF300_EN_F.pdf, OI_TTH300_EN_D.pdf	none	no	HART5

## 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

No

## 4.6 Known problems and limitations

- FDI device packages version 01.21, 03.01 and 04.01 should be installed to ensure compatibility with HW-Rev. 01.XX and HW-Rev. 02.XX, software 01.03.XX and 03.00.XX
- Device revision 4 is incompatible with the FDI device package for device revision 2
- Device revision 3 is incompatible with the FDI device 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](http://www.abb.com/measurement)

# Contacts

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