

Driver LWTxxx HART

Guided Wave Radar Level

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1 Device - Revision Record - What is new?

1.1 Hardware ID: 1A9E

| Released Revision | Released Date | Remarks |
|-------------------|---------------|---------------|
| 01.00.00 | March 2019 | First release |

1.2 Software/Firmware

| Released Revision | Released Date | Remarks |
|-------------------|---------------|---------------|
| 01.00.01 | March 2019 | First release |
| 01.00.03 | Sept. 2019 | Bug fix |
| 01.00.04 | Oct 2019 | Bug fix |

1.3 Device (latest SW compatibility status)

| Released Revision | Released Date | Remarks |
|-------------------|---------------|---------------|
| 01 | March 2019 | First release |

1.4 Supported devices

Guided Wave Radar LWT320, LWT310 with HW Version 01.00.00, SW Version 01.00.0x and Device revision 01 or higher.

1.5 Cyber Security info

1.5.1 ABB recommendation

A virus scanner shall be used on all PCs/Notebooks. McAfee VirusScan® Enterprise has been tested and qualified for this purpose.

1.6 Licensing

The “General terms of license for computer soft-ware utilization” are valid, which can be found by searching on abb.com

2 DTM (Device Type Manager)

2.1 Supported devices

Device name: LWT320, LWT310

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

| Released Version | Released Date | FDI Base EDD | Remarks DTM |
|------------------|---------------|--------------------|---------------------------------------|
| 07.01.02 | Feb. 2020 | 01.00.01 0103 | First release Part of the DTM700 |
| 07.01.04 | June. 2022 | 01.00.01 0103 | Bug fix release Part of the DTM700 |
| 07.02.05 | March. 2023 | 02.02.0004 0202 | Enhancements Part of the DTM700 |

The device DTM supports the standard FDT 1.2.

2.3 Supported Languages

The device DTM supports English

2.4 Requirements

2.4.1 PC-Hardware, Operating system

DTM500

- See DTM500 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)
- 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

DTM500

- 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

DTM500

- 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”
- <drive>:\..\3KXL221300S0202_DTM_LWTxxx_Guided Wave Radar_HART.zip\3KXL221300S0202_DTM_LWTxxx_Guided Wave Radar_HART\MID-001A_DID-1A9E\Revision_07.02.05\ABB DTM LWTxxx Guided Wave Radar HART.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

- Uninstallation is not required before update / upgrade. It can be handled like a new installation existing project will be retained. 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>

2.7 Known problems and limitations

DTM500

- None

DTM700

- Limitation: DTM connection states are not updated – Communication DTM shall provide updated communication states on disturbed, aborted, standby, connected, disconnected
- DTM is not tested with Symphony Harmony due to FDT issue – working with Harmony team to resolve
- DTM window resizes when goes online/offline parameterization. Observed in AVB
- Waveform UIP: Waveform takes longer time to load values in 800xA compared to AVB/Pactware.
 - o DCS communication is very slow compared to Standalone systems.
- Print UIP: Loading device configuration gives read error in 800xA, works as expected in AVB/Pactware
 - o 800xA specific frame issue

2.8 Getting help / further information

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

2.8.1 How to get the latest information & software?

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

3 EDD (Electronic Device Description)

3.1 EDD Version record - What is new?

| Released Version (Dev Rev) | Released Date | Remarks |
|----------------------------|---------------|------------------------------|
| 01 01 | August 2019 | First release |
| 01 03 | April 2020 | Second release |
| 02 02 | July 2022 | New device Rev-First release |

3.2 Supported Languages

The device EDD supports English

3.3 Requirements

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

3.4 Remove / import and configuration

Start your EDD Host application and follow the instructions.

3.5 Known problems and limitations

None

3.6 Getting help / further information

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

Use mouse over for field hints and tooltips.

3.7 How to get the latest information & software?

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

4 FDI (Field Device Integration)

FDI Package (EDD based)

4.1 FDI Device Package Version record - What is new?

| Released Date | Package Version | EDD Released (revision) (Dev Rev) | Attachment (revision) | UIP Released Version (00.00.00), Winx | UIP Changed UIP file count | Remarks (EDD. Attachment, UIP) |
|---------------|-----------------|-----------------------------------|---|--|----------------------------|--------------------------------|
| Oct. 2019 | 01.00.00 | 01 02 | 1 Image, LWT300GWRLevelTransmitter- UserGuide(HART)(3KXL001069U0100).pdf, LWT300seriesQuickStartGuide.pdf, LWT400HPHTGWRLevelTransmitterUG.pdf | LWTImportExportUIP.1.0.10.uip, LWTLinearizationUIP.1.0.10.uip, LWTPrintUIP.1.0.4.uip, | yes | First release |
| Oct 2020 | 01.03.00 | 01 03 | ABB_256x256.png, LWT_256x256.png CI_LWT300_HART-EN_A.pdf, OI_LWT300_HART-EN_B.pdf, 1A9E01_fdi.pdf | Advanced_Linearization.1.0.15.uip, Advanced_Waveform.1.0.12.uip, Import_Export.1.0.13.uip, Print.1.0.7.uip | yes | FCG Reg |
| March 2022 | 01.04.00 | 01.04 | ABB_256x256.png, LWT_256x256.png CI_LWT300_HART-EN_A.pdf, OI_LWT300_HART-EN_B.pdf, 1A9E01_fdi.pdf | Advanced_Linearization.1.0.18.uip, Advanced_Waveform.1.0.16.uip, LWT_SavedWaveformUIP_1.0.1, LWT_ThumbprintWaveformUIP_1.0.12, Import_Export.1.0.15.uip, Print.1.0.10.uip | yes | - |
| July 2022 | 02.02.00 | 02.02 | CI_LWT300_HART-EN_A.pdf OI_LWT300_HART-EN_B.pdf LWT300_GWR_User_Guide_(HART)_ (3KXL001069U0141).pdf LWT300_series_Quick_Start_Guide_(3KXL001068U0100).pdf | LWT_V2_HART_LinearizationUIP_1.0.20 LWT_V2_HART_WaverformUIP_1.0.3 | yes | |

4.2 Supported Languages

The device package supports English

4.3 Requirements

FDI Technology Version 1.x.x

4.3.1 EDD Host application / compatibility

4.4 Remove / import and configuration

Start your EDD Host application and follow the instructions.

4.5 Update- / Upgrade instructions

4.6 Known problems and limitations

1. ISSUE: UIP's not launching in FIM 2.2.1

Work-Around: Replace "ABB.DM.UipHost.Amd64.exe.config" config file from "C:\Program Files (x86)\Common Files\ABB\Field Information Manager" location (Cut & Paste same file)

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 frame application.

Use mouse over for field hints and tooltips.

4.8 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
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visit: abb.com/contacts
For more product information,
visit: abb.com/measurement

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