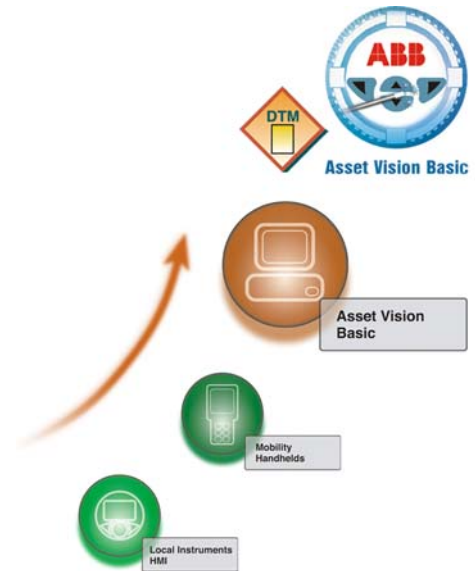


DTM Bundle & DAT200 Asset Vision Basic for intelligent field devices



DTM500 bundle

- Contains ABB device driver (DTM)
- Supports FDT Standard 1.2/1.2.1
- Adheres to the FDT Style Guide
- Graphical overview of DTM functions
- Easy Set-up wizard
- Diagnostics in accordance with NAMUR NE107; provides additional maintenance information

DTM400 bundle

- Contains ABB device driver (DTM)
- Supports FDT Standard 1.2
- Diagnostic information

DAT200 Asset Vision Basic

- FDT frame application for configuration, diagnostics, and maintenance tasks on intelligent devices
- Supports FDT Standard 1.2/1.2.1
- Supports all current fieldbus protocols via communication DTMs
- Point-to-point wizard
- Create a project tree at the touch of a button
- Structured according to user accounts and in line with the FDT Style Guide, with password protection if required
- Online help
- Supported by .NET 2.0

1 FDT / DTM technology

FDT technology makes an important contribution towards ensuring unrestricted utilization of the fieldbus potential by standardizing the communication interface between the field devices and the systems.

A key feature is its independence from the communications protocol, the software environment for the devices, and the host systems. Using FDT, it is possible for any host to access any device - via any protocol.

The heart of the FDT concept lies in the Device Type Manager (DTM), a component offered by ABB for a multitude of devices. It can be used in any system that supports the FDT interface.

The DTM is the configuration and management component of a field device. It is familiar with all the rules governing devices (plausibility checks), and contains all graphical user dialogs, the device configuration, diagnostics, and maintenance.

DTMs are loaded into the libraries of the automation system or of stand-alone tools, in a similar way to a printer driver in an office environment.

2 DTM bundles

2.1 General

"ABB DTM400" and "ABB DTM500" are names given to ABB DTM bundles for HART, PROFIBUS, FOUNDATION Fieldbus, and MODBUS devices.

2.2 Applications

- Configuration and parameterization of devices
- Diagnostics for devices and retrieval of status messages
- Online and offline display of device data (measurement data, diagnostics, configuration/parameterization, and status information) in multivisual format

2.3 Parameterization

- Graphical overview of parameter groups
- Online/offline configuration
- Upload device data:
Read parameterization/configuration information from device
- Download device data:
Write stored device data back into the device
- "Easy Set-up" program wizard for guided, quick parameterization of intelligent devices
- Parameters not synchronized with the data set/device are highlighted

2.7 Overview of DTM400 & DTM500 bundle

Bundle	FDT Specification		Windows operating system *)				DTM Style Guide	Graphics-based overview	Easy Set-up
	1.2	1.2.1	2000	XP	Vista	7			
DTM400	•	-	•	•	-	-	-	-	
DTM500	•	•	•	•	•	•	•	•	

*) Minimum Windows operating system (e.g. SP) see "Important Information".

2.4 Online display of measurement and status data

- Select how measured values are displayed:
 - Numerically
 - As a bar with alarm limits
 - As an analog dial
 - As a trend graph
 All graphical elements feature a scalable time axis.
- Status and diagnostics in accordance with NAMUR
 - Includes information (DAT500) on "possible cause" and "suggested action"

2.5 Archiving

- Back up & load TAG-related device data
- Print selected device data (DTM500)

2.6 Other features

- Select from two display windows (DTM500)
 - Main operation:
Display all of the DTM-functions in a single window
 - Application:
Display selected DTM-functions in individual windows
- Navigation area with tree structure (DTM500)
- Comprehensive online help available throughout the DTM



Important

Information on

- system requirements (hardware/software)
- number and type of DTMs in each of the packages
- licensing

is available either in "Supplement Info" under **Documentation** on the data storage medium supplied, or latest at www.abb.com/fieldbus.

On the Internet site, enter the following number in the Search box:

- For the **DTM400** bundle: "3KXD801400R3901"
- For the **DTM500** bundle: "3KXD801500R3901"

3 DAT200 Asset Vision Basic

3.1 General

Asset Vision Basic is an FDT frame application used for configuration, diagnostics, and maintenance tasks on intelligent devices.

Asset Vision Basic offers support for devices using all current communication protocols via communication DTMs.

Asset Vision Basic contains a point-to-point wizard that is not only intuitive for users but also enabling a device to be parameterized quickly.

Asset Vision Basic conforms to FDT Specification 1.2.1. and supports FDT 1.2; it is, therefore, open for certified DTMs.

Asset Vision Basic is supported by .Net 2.0.

3.2 Applications

- Provides the FDT frame for DTMs (device DTMs, communication DTMs, remote I/O DTMs, and so on)
- Straightforward tool for quick device parameterization (point-to-point wizard)
- Visual device overview that maps device communication links in systems (project tree)
- Storage/management of device data
- Device measuring point planning and management

3.3 Management

- Management of devices and networks in projects
- Display and management of all installed DTMs (device catalog), incl. a filter function for sorting according to:
 - Device type
 - Manufacturer
 - Group
 - Protocol
- Assignment of measuring point names in the project manager (network)
- Assignment of device/DTM addresses in the project manager (network) via the communication DTMs
- Device recognition via device TAG number or address
- Simultaneous communication (online) with several devices
- Scanning of devices connected via communication DTMs
- Automatic generation of a project tree in the project manager (network) via communication DTMs

3.4 Archiving

- Back up & load project-related data
- Print project related data

3.5 Point-to-point (Tool Mode) wizard

- The wizard guides you in opening a project for a device.
- The wizard assists in configuring communication interfaces, finding the device, and selecting the right DTM.
- The wizard with three modes:
 - Online:
Automatic device selection, connection to device, and reading of device data
 - Offline:
Manual device selection and display of device instance data
 - Open file:
Opens a previously saved point-to-point project in Offline or Online mode

3.6 Other features

- Password protection available for user accounts with fixed roles
- Language settings
- Configuration of Tool Mode wizard
- Configuration of frame window and shortcuts
- Option of opening FDT and error monitor
- Customizable tool bar
- Application view can be switched to a tab or window
- Comprehensive online help available throughout the Tool
- Minimum Windows operating system (e.g. SP) see "Important Information".



Important

Information on

- system requirements (hardware/software)
- registration

is available either in "Supplement Info" under **Documentation** on the data storage medium supplied, or latest at www.abb.com/fieldbus .

On the Internet site, enter the following number in the Search box:

- "3KXD151200R3901"

4 Connection types

PROFIBUS connection via USB adapter		Description	Order number	Data sheet
<p>(Option) Ethernet TCP/IP</p> <p>PROFIBUS DP Master Controller</p> <p>1) Bus termination off! 2) Bus termination on!</p> <p>DP field devices</p> <p>Remote I/O</p> <p>HART field devices</p> <p>Linking Device DP PA</p> <p>PROFIBUS PA</p> <p>PA field devices</p> <p>(Option) DP/DP repeater for copper RS 485, FOC, IR ...</p> <p>M00474</p>	<p>1 DTM bundle & DAT200</p> <ul style="list-style-type: none"> - DTM bundle devices & Asset Vision Basic - driver & device management tool for configuration and parameterization of intelligent field devices - Communication DTM: "is Pro adapter V3" *) 	63801-9820027	DS/DTM/DAT200	
	<p>2 NDA121-NO</p> <ul style="list-style-type: none"> - USB - PROFIBUS DP / PC adapter 	63631-9890002	10/63-6.31	
	<p>3 NDE230-NO</p> <p>DP cable connector, 9-pin, SUB-D</p> <ul style="list-style-type: none"> - Incl. switchable bus termination and SUB-D programming connection, ≤ 12 Mbps, IP 40 ■ Pin assignment: <ul style="list-style-type: none"> - IN: 1A = RxD/TxD-N, 1B = RxD/TxD-P - OUT: 2A = RxD/TxD-N, 2B = RxD/TxD-P 	63641-9890119	10/63-6.40	
	<p>4 NDE220-NO</p> <p>DP cable connector, 9-pin, SUB-D</p> <ul style="list-style-type: none"> - Incl. switchable bus termination, ≤ 12 Mbps, IP 40 ■ Pin assignment: <ul style="list-style-type: none"> - IN: 1A = RxD/TxD-N, 1B = RxD/TxD-P - OUT: 2A = RxD/TxD-N, 2B = RxD/TxD-P 	63641-9890118	10/63-6.40	
	<p>5 PROFIBUS DP cable, violet</p> <p>NDC110-NO - 2 x 0.32 mm² (AWG 22/1), 65/330/1,000 m</p>	63647-989014x	10/63-6.47	
<p>ABB field device overview</p> <ul style="list-style-type: none"> - PROFIBUS DP - PROFIBUS PA 			10/63-0.47	10/63-0.46
<p>Installation suggestions</p> <ul style="list-style-type: none"> - PROFIBUS DP / PA 			10/63-0.40	

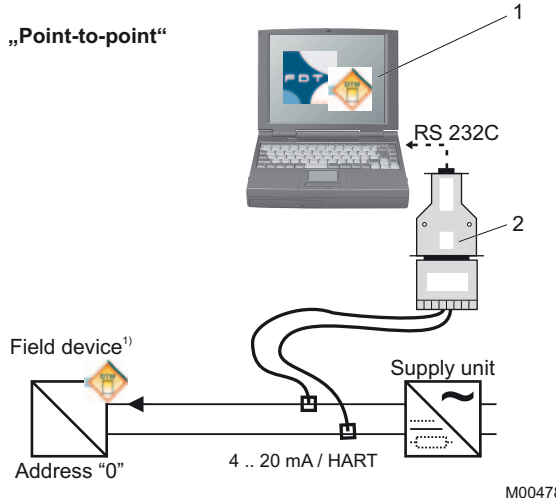
PROFIBUS connection via Ethernet gateway		Description	Order number	Data sheet
<p>(Option) Ethernet TCP/IP</p> <p>PROFIBUS DP Master Controller</p> <p>1) Bus termination off! 2) Bus termination on!</p> <p>DP field devices</p> <p>Remote I/O</p> <p>HART field devices</p> <p>Linking Device DP PA</p> <p>PROFIBUS PA</p> <p>PA field devices</p> <p>M00475</p>	<p>1 DTM bundle & DAT200</p> <ul style="list-style-type: none"> - DTM bundle devices & Asset Vision Basic - driver & device management tool for configuration and parameterization of intelligent field devices - Communication DTM: On request 	63801-9820027	DS/DTM/DAT200	
	<p>2 Ethernet - PROFIBUS DP gateway</p> <ul style="list-style-type: none"> - On request 			
	<p>3 NDE230-NO</p> <p>DP cable connector, 9-pin, SUB-D</p> <ul style="list-style-type: none"> - Incl. switchable bus termination and SUB-D programming connection, ≤ 12 Mbps, IP 40 ■ Pin assignment: <ul style="list-style-type: none"> - IN: 1A = RxD/TxD-N, 1B = RxD/TxD-P - OUT: 2A = RxD/TxD-N, 2B = RxD/TxD-P 	63641-9890119	10/63-6.40	
	<p>4 NDE220-NO</p> <p>DP cable connector, 9-pin, SUB-D</p> <ul style="list-style-type: none"> - Incl. switchable bus termination, ≤ 12 Mbps, IP 40 ■ Pin assignment: <ul style="list-style-type: none"> - IN: 1A = RxD/TxD-N, 1B = RxD/TxD-P - OUT: 2A = RxD/TxD-N, 2B = RxD/TxD-P 	63641-9890118	10/63-6.40	
	<p>5 PROFIBUS DP cable, violet</p> <p>NDC110-NO - 2 x 0.32 mm² (AWG 22/1), 65/330/1,000 m</p>	63647-989014x	10/63-6.47	

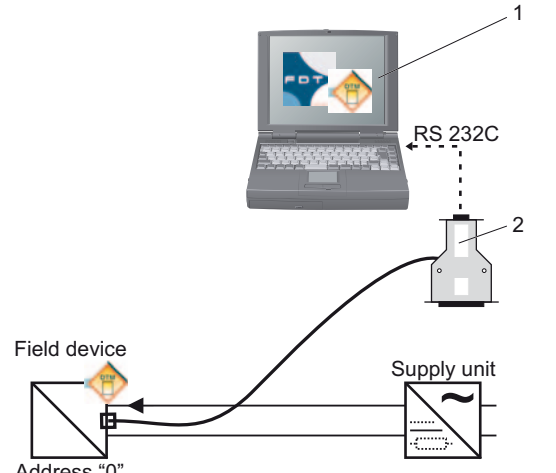
*) Recommended adapters/modems

HART connection via FSK/USB modem	Description	Order number	Data sheet
<p>„Point-to-point“</p> <p>1) Any HART devices. Not for TSx02 with "FSK 600 baud"</p> <p>M00476</p>	<p>1 DTM bundle & DAT200</p> <ul style="list-style-type: none"> - DTM bundle devices & Asset Vision Basic - driver & device management tool for configuration and parameterization of intelligent field devices - Communication DTM: "is HRT USB v2" *) 	63801-9820027	DS/DTM/DAT200
	<p>2 NHA121-NX</p> <ul style="list-style-type: none"> - USB - HART FSK / PC modem, electrical isolation, Ex protection type II (2) G [EEx ia] IIC 	3KDE636710L0001	10/63-6.71
	<p>NHA121-NO</p> <ul style="list-style-type: none"> - USB - HART FSK / PC modem, electrical isolation, non-Ex applications (alternative, not shown) 	3KDE636710L0002	10/63-6.71
<p>i Important During workshop operation with a power supply unit, a 250 Ω resistor must be connected in series.</p>			

Contrac connection via Contrac cable	Description	Order number	Data sheet
<p>M00477</p>	<p>1 DTM bundle & DAT200</p> <ul style="list-style-type: none"> - DTM bundle devices & Asset Vision Basic - driver & device management tool for configuration and parameterization of intelligent field devices - Communication DTM: "ABB Contrac-LCI Communication" 	63801-9820027	DS/DTM/DAT200
	<p>2 Configuration cable</p> <ul style="list-style-type: none"> - RS 232C - PC connection cable for Contrac (4 ... 20 mA, HART or PROFIBUS DP) 	V68999-746349	10/68-7.20

*) Recommended adapters/modems

HART connection via FSK/RS 232 modem	Description	Order number	Data sheet
<p>„Point-to-point“</p>  <p>M00478</p> <p>1) Any HART devices. Not for TSx02 with "FSK 600 baud"</p>	<p>1 DTM bundle & DAT200</p> <ul style="list-style-type: none"> - DTM bundle devices & Asset Vision Basic - driver & device management tool for configuration and parameterization of intelligent field devices - Communication DTM: Not in ABB scope of delivery *) 	63801-9820027	DS/DTM/DAT200
	<p>2 NHA102-NO</p> <ul style="list-style-type: none"> - RS 232C - HART FSK / PC modem, non-Ex applications (Not suitable for USB / RS 232 adapters!) 	63671-7957838	10/63-6.71
<p>i Important During workshop operation with a power supply unit, a 250 Ω resistor must be connected in series.</p>			

HART connection via LCI / RS 232 adapter	Description	Order number	Data sheet
 <p>M00479</p>	<p>1 DTM bundle & DAT200</p> <ul style="list-style-type: none"> - DTM bundle devices & Asset Vision Basic - driver & device management tool for configuration and parameterization of intelligent field devices - Communication DTM: Not in ABB scope of delivery *) 	63801-9820027	DS/DTM/DAT200
	<p>2 NHA201-NO</p> <ul style="list-style-type: none"> - RS 232C - HART LCI / PC adapter with small connector for positioner (Not suitable for USB / RS 232 adapters!) 	63671-0319621	10/63-6.71

*) Recommended communication DTM:
"M&M HART Communication DTM"
Supplier:
M&M Software GmbH, Industriestr. 5, 78112 St. Georgen,
GERMANY
Phone: +49 (0) 7724 / 9415-0, fax: +49 (0) 7724 / 9415-23
E-mail: fdt@mm-software.com

5 Ordering information

Description	Ordering Number
<p>DTM Bundle</p> <p>DTM500 & DTM400 Bundle - single PC license. Once installed the DTM Bundle runs 90 days in demo mode(full functionality) and must be purchased within this period, if the data storage on a PC is requested.</p> <p>You will find the list of the device DTMs (driver) in the DTM Bundles in the "Supplement Info" on the data medium or latest available on www.abb.com/fieldbus..</p> <p>Enter here the following no. in the search field</p> <ul style="list-style-type: none"> - for the DTM500 Bundle "3KXD801500R3901" - for the DTM400 Bundle "3KXD801400R3901" - for the DAT200 Tool "3KXD151200R3901" <p>*) Minimum Windows operating system (e.g. SP) see "Supplement Info".</p> <ul style="list-style-type: none"> - DTM500 Bundle: The device DTM Bundle supports the standard FDT1.2 / 1.2.1, Windows 2000, XP, Vista and 7 *). - DTM400 Bundle: The device DTM Bundle supports the standard FDT1.2, Windows 2000 and XP *). - Including DAT200 Asset Vision Basic: For configuration, diagnostics and maintenance of smart devices. FDT frame application 1.2 / 1.2.1, Windows 2000, XP, Vista and 7 *). 	<p>63801-9820027</p>

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