Measurement Made Easy

Engineered solutions for all applications



Improved functionality For custom linearization curve



Introduction

Custom linearization curve can be uploaded into the device using ABB Asset Vision Basic configuration software

Hardware required

- PC or notebook
- HART USB Modem
- Power Supply

How to install ABB Asset Vision Basic

Download ABB Asset Vision Basic at http://search.abb.com/library/Download.aspx?DocumentID=3 KXD151200S0050&LanguageCode=en&DocumentPartId=&Act ion=Launch

Unzip the file and follow the path:

3KXD151200S0050_Tool_DAT200_Asset_Vision_Basic > Rev01.03.00_2016.01 > setup.exe



1) Click "Next"

🔀 ABB Asset Vision Basic - InstallShield Wizard		×
License Agreement Please read the following license agreement carefully.	Asset Vision Basic	ABB
Please read the license agreement to be find below carefully!		
Open license file		
 I accept the terms in the license agreement 		
I do not accept the terms in the license agreement		
InstallShield		
< Back	Next >	Cancel

2) Accept the license agreement and go ahead

🛃 ABB Asse	et Vision Basic - InstallShield Wizard		×
Destination Click Nex different	on Folder <pre>ct to install to this folder, or dick Change to install to a folder.</pre>	Asset Vision Basic	ABB
Ø	Install ABB Asset Vision Basic to: C:\Program Files (x86)\ABB Asset Vision Basic\		Change
InstallShield -	< Back	Next >	Cancel

3) Click "Next"

늻 ABB Asset Vision Basic - InstallShield Wizard		×
Ready to Install the Program The wizard is ready to begin installation.	Asset Vision Basic	ABB
Click Install to begin the installation.		
If you want to review or change any of your installation settin exit the wizard.	gs, dick Back. C	ick Cancel to
InstallShield < Back	Install	Cancel

4) Click on "Install" button

🛃 ABB Asset Vision Basic - Ins	tallShield Wizard
	InstallShield Wizard Completed
ABB	The InstallShield Wizard has successfully installed ABB Asset Vision Basic. Click Finish to exit the wizard.
Asset Vision Basic	
	< Back Finish Cancel
5)Click "Finish"	



6) Select the preferred language and press "OK"

After the installation of ABB Asset Vision Basic the wizard will ask to install the modem driver. Follow the instruction in order to be able to connect your modem

€€)© ifak system	Welcome to the InstallShield Wizard for is HRT CommDTM v2.0.0.1145
	The InstallShield® Wizard will install is HRT CommDTM $\nu 2.0.0.1145$ on your computer. To continue, click Next.
	Install the driver before connecting the modernl Otherwise the modern may not be recognized correctly.
	Moderns with serial number 2xxx and 4xxx can not be used wit 64-bit versions of Microsoft(R) operating systems.
	64-bit versions of Microsoft(R) operating systems.

```
7) Click "Next"
```

Choose Destination Location Select folder where Setup will install files.	€€) ifak system
Setup will install is HRT CommDTM v2.0.0.1145 in the following fol	lder.
To install to this folder, click Next. To install to a different folder, cli folder.	ck Browse and select another
Destination Folder	
C:\Program Files (x86)\ifak system\	Browse
stallShield	

8) Click "Next"

Setup Type Select the Setu	p Type to install.	€€C)@ ifak system
Click the type o	f Setup you prefer, then click Next.	
 Typical 	Program will be installed with the most common options. Recc users.	mmended for most
C Compact	Program will be installed with minimum required options.	
C Custom	You may choose the options you want to install. Recommende users.	d for advanced
stallShield		
	< Back Next >	Cancel

9) Select "Typical" and click "Next"

Start Copying Files		~ @O(
Review settings before copying files.		ifak syste
Setup has enough information to start copying settings, click Back. If you are satisfied with the	g the program files. If you wa ne settings, click Next to beg	ant to review or change any in copying files.
Current Settings:		
The following components are installed in: C:\Program Files (x86)\ifak system\		*
Components: is HRT CommDTM Files		
4		
allShield		

10) Click "Next"



Now select your language and continue the installation repeating steps 7) to 11).

At the end of the process restart the computer and be sure the following programs are installed on your compter:

- ABB Asset Vision Basic
- Ifak system > isHRT Configurator
- Ifak system > isHRT Test

How to install DTM

Download transmitter DTM at

http://search.abb.com/library/Download.aspx?DocumentID=3 KXP000266S0002&LanguageCode=en&DocumentPartId=&Act ion=Launch

Unzip the file and follow the path:

3KXP000266S0002_DTM_2600T(266xxx-PdP)_HART > Rev05.05.00_05.00.05 > setup.exe

ABB DTM500 - InstallShield Wizard	X
5	Welcome to the InstallShield Wizard for ABB DTM500
	The InstallShield Wizard will install ABB DTM500 on your computer. To continue, click Next.
	< Back Next> Cancel

1) Click "Next"

11) Click "Finish"

ABB DTM500 - InstallShield Wizard	×
License Agreement Please read the license agreement carefully.	A
Please read the license agreement provided below carefully and accept it to proceed.	
Open License File	
@ Laconstitute target affect license environment	
I de not accept the terms of the license agreement	
The non-acceptime terms of the incense agreement	
InstallShield	Cancel

1) Accept the license agreement and click "Next"

ABB DTM500 - InstallShield Wizard		x
Customer Information Please enter your information.		
Please enter your name and the name of the com	bany you work for.	
User Name:		
I		
Company Name:		
InstallShield		
	<back next=""> Cancel</back>	





Select DTMs Select the DTMs you would like to install,	update or uninstall.				
	Install	Update	UnInstall	Version in Package	Version Installed
DTM500 Library				05.00.21	
DTM 266-PdP HART				05.00.05	-
stallShield					

4) Click "Next"

ABB DTM500 - InstallShield Wizard
Start Copying Files
Review settings before copying files.
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
Installation Directory: C\Program Files (x86)\ABB Industrial IT\Engineer IT\DTM\ABB DTM500 User Information : User Name :g Company Name :a Selected Language : The file file file file file file file fil
English
KBack Next> Cancel

4) Click "Next"

5) Click "Finish"

Connect the device

One end has a USB interface which has to be connected to the PC USB port, whereas minigrabbers must be connected to the transmitter as shown in pictures.



HART USB modem connection scheme



266 Transimtter and HART modem connection



Connection between PC-HART USB Modem-266 Transmitter - Power Supply

Once the system is linked to the computer open the directory ifak system>isHRT configurator.

😌 isHRT Driver Configuration	23
Devices isHRT Driver Configuration	Device: isHRT USB(eX)
	Serial No. Search attached devices
	Serial port: COM1 -
Add Remove	
Info	OK Cancel

Click on **"Device 0 (USB – Device)"** then write in the circled space the modem serial number. The serial number can be found on the rear of the device.

Click "OK" to proceed.

In order to verify the connection with the device, open the directory ifak system>isHRT test.

evice:	USB: 6246	•		scan now
Poll	Manufacturer		TAG	

Press **"scan now"**. Be sure the device shown has the same modem serial number.

Now you can start ABB Asset Vision Basic.

How to upload linearization curve on the device

In order to upload the custorm linearization curve open ABBAsset Vision Basic.

Action Sele	ection	Asset	
Please sele	act the action to execute	Vision Basic	ЛЫ
Automa	tic device selection (online)		
Q	Automatically detects all devices connected to this computer. You can select one of them to work with.		
Manua	I device selection (offline)		
	Manually select a device type from the Device Catalogue. The device doesn't have to be connected with this computer.		
🖯 Open fi	le		
	Open an existing project file:		

1) Select "Automatic device selection (online)" and click "Next"

ABB Asset Vision Basic - Tool Mode Assistant				
Communication Interface Select Please select the communication inte	Asset Vision Basic			
1. Select communication protocol				
Hatt Profibus DPV 0 Profibus DPV 1				
2. Select communication interface				
Communications Hardware	Version	Vendor		
isHRT USB(eX)	2.x	ifak system		
the H@it BluePack	2 <i>x</i>	ifak system		
the H@rt Stick	2 <i>x</i>	ifak system		
Help Cancel				

2) In the next window select "Hart", communication protocol then select "isHRT USB(eX)" communication interface and click "Next"

Communication Interface Please configure the select	ce Configuration ted communication interface.		Asset Vision Basic
Channel Configuration About Device List Driver Configuration	Device: is HR Description: HART	F CommDTM V2	€€()@ ifak system
	Channel Properties	Preambles: Max Retries: Max Scan Address:	5 3 15
	ØÞ Disconnected □ □	OK Apply Data set	Cancel Help
Help 🌱		< Back	Next > Cancel

3) Click "Next"

ABB Asset Vision Basic will scan the network and detect the transmitter (note: this operation won't be successful if the correct DTM is not installed)

	Device Description Tag	2600T-266 PdP HART AEB 266-			ABB
Device data E	dit View HARTF	tead-Only Device Extras He			
Identify Parameterize Configuration Early softwo Daniels		Identify - Offine			
Collection Simulation Disprosfiles		Device AE Device 25	Devices ID 14/27 7:58 FB/FMCT Device send re. 30000000000 Devicer reviewing 1 HWRT miniation 5		
		Aussache ervision 00 Software revision 00 Device data 0 Dote 17 Tag 44 Description 7	00 48 CTM-19 x-/- 20 Of 20		
		Message // -/Additional Information Sensor Type Un Long tag // Sensor Revision 00	оот 50		
				OK Cancel	Apply
]			

4) Click "Yes" to switch online



	Desident	DEPUT, DEE BUR MARY				
16	Description Tag	PT100				A
Device data Ed	it View HARTRA	ad-Only Device Extras	Help			
0-10		02.000				
Identify			1			
forsmetenze Configuration		Identify - Online				
asy set-up operate	P. 1	Device				
alibration	×	Manufacturer	448	Device ID	1407	
Negnostics	0.	Device	2600T-265 PdP HART	Device serial no.	3453000000000	
	0.77			Device revision	1	
	0.7			HART revision	5	
	¥	Additional device revision				
		Hardware revision	01.00.03			
		Software revision	07.01.55			
	S 1	Device data				
	Y	Address	0	Vilitie protection	Off	
		Date	1900-01-01			
		Tag	PT100	Final assembly number	0	
	S	Description				
	V	Message	-			
	0.	Additional Information				
	0.77	Sensor Type	Gauge Pressure			
	1 N	Long tag				
	X	Sensor Revision	07.01.55			
	0.					
	62 I					
	2					
	0.					
	0.00					
	Pres 1					OK Cancel Appl
	- T					

5) Click "Parametrize" on the left column







7) Select **"Linear table 22pt"** on the drop-down list and write X and Y values in the spaces. X and Y values for each device are listed below:

Device Serial Number: 3K646616037507

X Value	Y Value
0	0
13,89	11,11
24,31	22,22
33,33	33,33
42,36	44,44
50,69	55,56
60,42	66,67
71,53	77,78
84,72	88,89
88,19	90
97,22	94,44
100	100

Device Serial Number: 3K646616037508

X Value	Y Value
0	0
13,89	11,11
24,31	22,22
33,33	33,33
42,36	44,44
50,69	55,56
60,42	66,67
71,53	77,78
84,72	88,89
97,92	94,44
100	100

Device Serial Number: 3K646616037509

X Value	Y Value
0	0
16,08	11,11
26,57	22,22
35,66	33,33
44,06	44,44
53,15	55,56
61,54	66,67
71,33	77,78
81,82	88,89
89,51	94,44
100	100

When the table is filled click on **"Apply"** button then click on "store user curve to device"

To set scaling parameters click on Parametrize>P/DP>Output



8) Select on scaling unit **"Kg"**, set lower range equal to 0 and upper range equal to 9000 then click **"Apply"**.

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