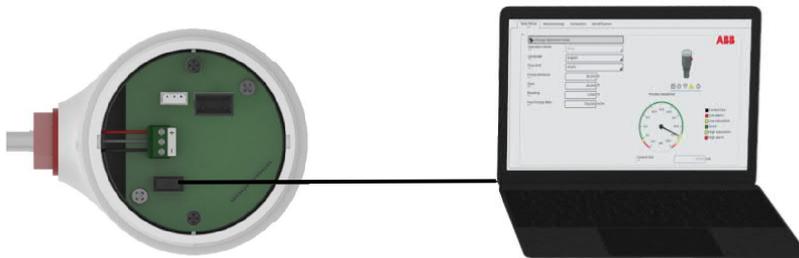


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ABB MEAREMENT & ANALYTICS | Configuration- Parameterization Instruction

## Use ABB FIM tool to configure LST200 ultrasonic level transmitter



### For more information

Further publications for LST200 are available for free download from:  
<https://new.abb.com/products/measurementproducts/zh/lst200-language>



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Measurement made easy

ABB FIM tool, Configuration made easy

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ABB FIM tool with LST200 FDI package, easier configuration and troubleshooting via computer

Advanced open channel flow measurement configuration interface, no need to be an expert

Interface cable with dual purpose, configuration and firmware upgrade (consult with ABB)

Before start

Read the operation instruction carefully before installation and configuration. Wrong wiring or operation could cause damage to the device.

Connection

- Ensure the LST200 is not plugged in to any power supply
- Connect the Interface cable (ABB P/N: 3KXL065113U0100) to the device and computer as showed below
- Mount the retaining clip on the enclosure to secure the connection
- Push “down” the switch to FIM configuration mode

**⚠ WARNING**

Check the white spot and ensure plugging in with right direction  
Switch “up” is for firmware upgrade mode which could damage the device, consult ABB if you need



- Power supply terminal
- White spot for direction identification



- Retaining clip
- USB connector for PC



- Upgrade/configuration mode switch

## Software installation

You may need to download the cable driver and ABB FIM tool (Free version is enough for LST200)

Interface cable Virtual COM Port driver (VCP) Link is as below, After successful installation, windows will allocate a port number to the cable automatically

[https://www.ftdichip.com/Drivers/CDM/CDM21228\\_Setup.zip](https://www.ftdichip.com/Drivers/CDM/CDM21228_Setup.zip)

ABB FIM tool link as below

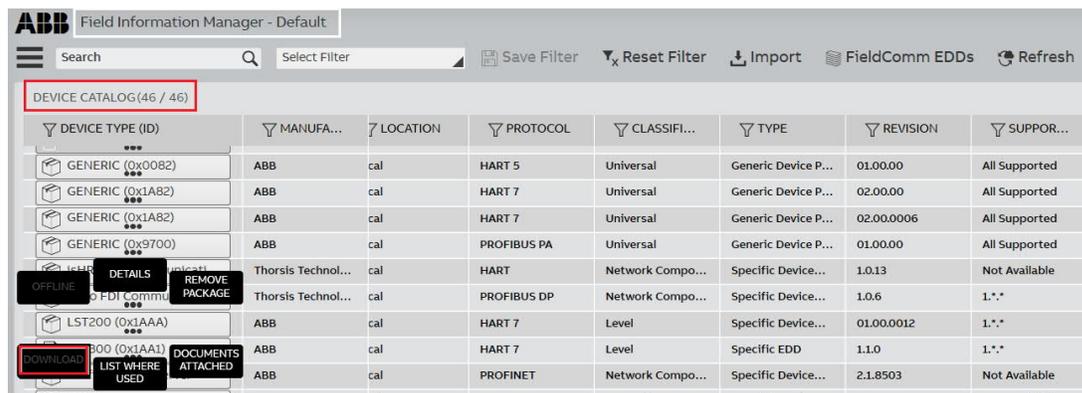
<https://new.abb.com/control-systems/fieldbus-solutions/fim/free-trial-software>

## Configuring using the ABB FIM with LST200 FDI package

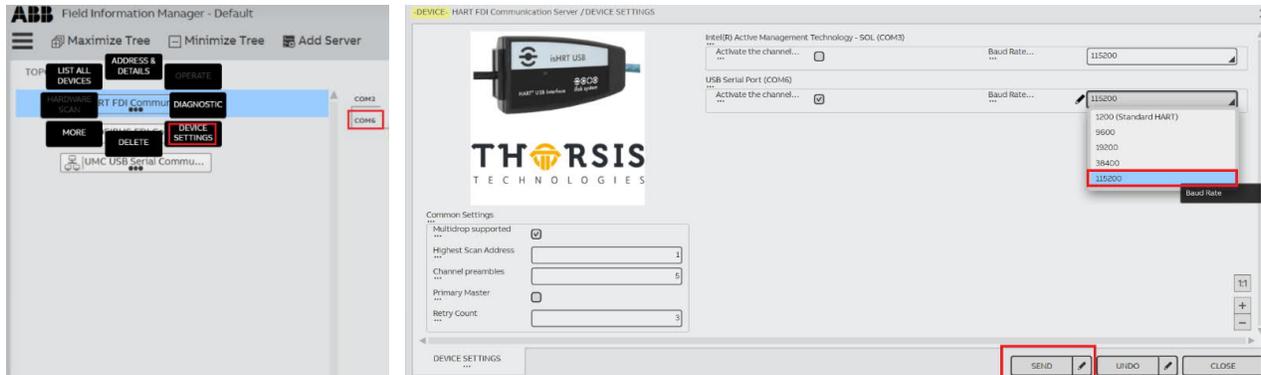
ABB's Field Information Manager (FIM) software employs Field Device Integration (FDI) technology and is equipped with high-performance and innovative graphical user interface that helps technicians to effectively work with the process instrumentation.

Note:

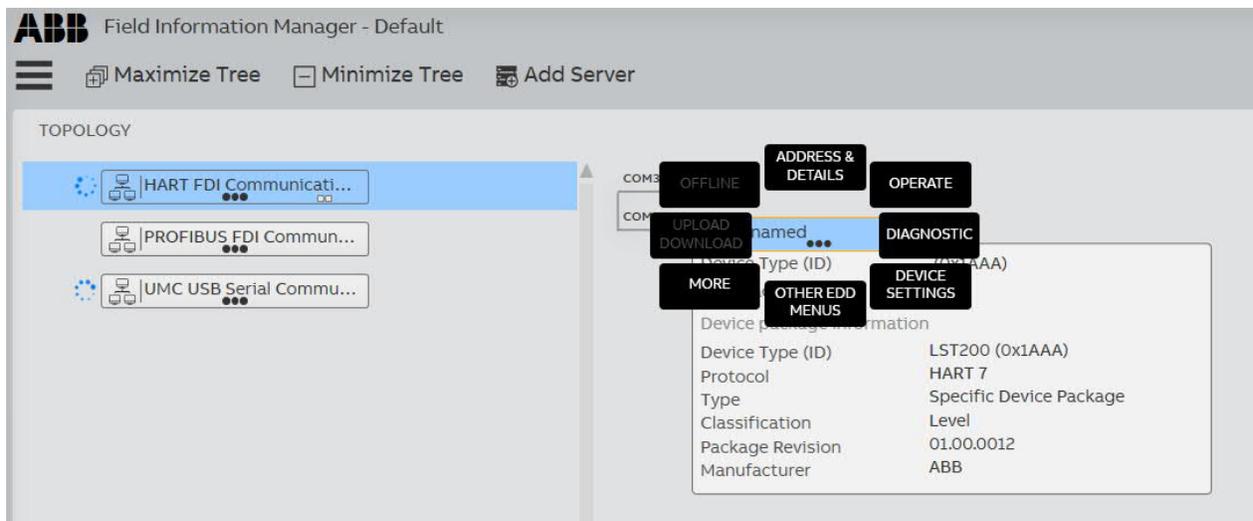
- It may take 1 min to start the FIM software
  - You don't need to order license for LST200's setup, free version is enough
  - If the connection was lost, you may need to restart the FIM software
1. If you are the first time to use FIM to configure LST200, you need to go to the "DEVICE CATALOG" to find and click the LST200 tag and download the LST200 FDI package online



- Go to "TOPOLOGY" and choose the right COM port of the cable from "HART FDI Communication Server" , and in the tag" DEVICE SETTINGS", change the Baud Rate to 115200 and click "SEND"



- Go back to "TOPOLOGY" and power on the device, the you will find the device icon show as below



- Start to configure the device according to the Operation Instruction (Unser Manual) and related documents from

<https://new.abb.com/products/measurement-products/zh/lst200-language>



- "Operate" to check the current status of your process condition
- "DIAGNOSTIC" to check information like waveform or alarm history
- "DEVICE SETTINGS" to set units, measuring range, empty distance, 0% and 100% points, linearization table, etc.

5. Typical applications—Open channel flow

- 1) In DEVICE SETTINGS/Easy Setup, change the operation mode to “flow” and you will find the “open channel flow” in Detailed setup menu



2) Parameters setup

- Select the type of your flume and input the suggested parameters required.
- Click “Calculate” to get the max. flow (100% point) based on the Span and Empty distance you set
- Click “Generate” to get the linearization table based on the max. flow.
- Click “Send Lin Points” to download the settings to your LST200 device and Click YES if you want the settings enabled immediately in your device

1	0.0484	18.7404117584
2	0.0968	54.1174621582
3	0.1452	100.633392333
4	0.1935	156.155761718
5	0.2419	219.738403320
6	0.2903	280.467407226
7	0.3387	367.755035400
8	0.3871	451.138946533
9	0.4355	540.246337890
10	0.4839	634.769165039
11	0.5323	734.445678710
12	0.5806	838.827819824
13	0.629	948.148681640
14	0.6774	1062.02478027
15	0.7258	1180.29467773
16	0.7742	1302.82592773
17	0.8226	1429.4858191
18	0.871	1560.16003417
19	0.9194	1694.74047851
20	0.9677	1832.84020966
21	1.0161	1974.93981933
22	1.0645	2120.67333984
23	1.1129	2269.96240234
24	1.1613	2422.73486328
25	1.2097	2578.91943358
26	1.2581	2738.45092774
27	1.3065	2901.26977539
28	1.3548	3066.97290039
29	1.4032	3236.18847656
30	1.4516	3408.52563476
31	1.5	3583.93823242





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3KXL333200R4521 Rev A 12.2020

