## Connecting to a Flow Computer using a PC with Bluetooth™

NOTE: In order to communicate via Bluetooth<sup>™</sup> with a flow computer your PC must be Bluetooth capable or must have a USB-to-Bluetooth adapter.

## STANDARD MICROSOFT<sup>™</sup> WINDOWS<sup>®</sup> XP BLUETOOTH MANAGER

The following steps show the standard Microsoft<sup>™</sup> Windows® XP Bluetooth manager. If you use another third party Bluetooth stack the following screens will not match your computer. For computers using the **Broadcom Bluetooth stack** such as some Dell & HP Computers with Built-in Bluetooth modules follow the Broadcom Bluetooth guide at the end of this document.

Step 1. Run the "Bluetooth Devices" dialog, this can be done from the system tray by clicking on the Bluetooth icon



Or from the control panel by clicking on the Bluetooth devices icon:



aluetooth Devices 🛛 🛛 🔀	Bluetooth Devices
Devices Options COM Ports Hardware	Devices       Options       COM Ports       Hardware         Discovery       To allow Bluetooth devices to find this computer, select the following check box.         Turn discovery on         Image: Connections         Use these settings to control whether a Bluetooth device can connect to this computer.         Image: Allow Bluetooth devices to connect to this computer         Image: Allow Bluetooth devices to connect to this computer         Image: Allow Bluetooth devices to connect to this computer         Image: Allow Bluetooth icon in the notification area
Add Remove Properties	Learn more about <u>Bluetooth settings</u> . <u>Restore Defaults</u> OK Cancel <u>Apply</u>

 $\underline{Step \ 2.}$  Adding the device: when this dialog appears, go to the  $\underline{Options}$  tab.

Step 4. Go back to the "Devices" tab Click on the

"Add" button, in order to search for the Flow

Computer, a wizard will start:

**Step 5.** Once you see your device name on the dialog, select it and click the **"Next"** button.

Add Bluetooth Device Wiza	ard 🛛 🛛 🔊	Add Bluetooth Device Wizard
8	Welcome to the Add Bluetooth Device Wizard	Select the Bluetooth device that you want to add.
	Before proceeding, refer to the "Bluetooth" section of the device documentation. Then set up your device so that your computer can find it: • Turn it on • Make it discoverable (visible) • Give it a name (optional) • Press the button on the bottom of the device (keyboards and mice only)	Houster New device
	✓ My device is set up and ready to be found.	<ul> <li>If you don't see the device that you want to add, make sure that it is turned on. Follow the setup instructions that came with the device, and then cick Search Again.</li> </ul>
	Add only Bluetooth <u>devices that you trust</u> .	
	< Back Next > Cancel	< <u>B</u> ack <u>Next&gt;</u> Cancel

**IMPORTANT:** Please verify that the Flow computer is turned ON, it is configured to communicate using Bluetooth<sup>™</sup> and it has a Meter ID name.

Step 3. On the Options tab enable "Allow Bluetooth devices to connect to this computer"

<u>Step 6.</u> Choose "Use the passkey found in the documentation" and enter 1234 then click on the "Next" button.

Add Bluetooth Device Wizard			
Do you need a passkey to add your device?	×°		
To answer this question, refer to the "Bluetooth" section your device. If the documentation specifies a passkey, u	of the documentation that came with se that one.		
O Choose a passkey for me			
O Use the passkey found in the documentation:	1234		
◯ Let me choose my own passkey:			
O Don't use a passkey			
You should always use a <u>passkey</u> , unless your device does not support one. We recommend using a passkey that is 8 to 16 digits long. The longer the passkey, the more secure it will be.			
	lack <u>N</u> ext > Cancel		

**<u>Step 7.</u>** Wait until the device parings is completed, then the next window will appear.

Add Bluetooth Device Wizard		×
Windows is installing your device.		*
✓ Connecting		
Installing Bluetooth device		
	< <u>B</u> ack <u>N</u> ext >	Cancel

**Step 8.** Please take a note of the **Outgoing COM port** assigned to the Flow Computer, on this example the port is COM15, as you can see on the image. Click on "Finish", now the device is ready to communicate Bluetooth<sup>™</sup>.

Add Bluetooth Device Wiza	rd 🛛 🛛		
®	Completing the Add Bluetooth Device Wizard		
	The Bluetooth device was successfully connected to your computer. Your computer and the device can communicate whenever they are near each other.		
	These are the COM (serial) ports assigned to your device.		
	Outgoing COM port: COM15		
	Learn more about <u>Elluetooth COM ports</u> .		
	To close this wizard, click Finish.		
< <u>B</u> ack Finish Cancel			

<u>Step 9.</u> Now you will be back to "Bluetooth Devices", but this time the Flow Computer is installed.

Bluetooth Devices 🛛 🛛 🔊			
Devices Options COM Ports Hardware			
All other devices			
Houster No passkey			
Add Remove Properties OK Cancel Apply			

In case you do not remember the COM port assigned to the Flow Computer, this can be checked by clicking on the **COM Ports** tab, you will see the Port number to use on the Dynacom software to connect to the Flow computer, remember, it is the one marked as **Outgoing**.

Bluetooth Devices 🛛 🛛 🖾				
Devices Options COM Ports Hardware				
This computer is using the COM (serial) ports listed below. To determine whether you need a COM port, read the documentation that came with your Bluetooth device.				
Port Direction Name				
COM15 Outgoing Houster 'AT Serial'				
Add <u>R</u> emove				
OK Cancel Apply				

If for any reason the ports were not added, or they were deleted, you can add the outgoing port manually by clicking on the **"Add"** button:

Select **Outgoing** as the type of port, select the Flow Computer name from the list of devices and click **Ok**, that will create the COM port.

Add COM Port		8
Select the type of COM (serial) port that you want to add: <ul> <li>Incoming (device initiates the connection)</li> <li>Qutgoing (computer initiates the connection)</li> <li>Device that will use the COM port:</li> </ul>		
Houster Service: AT Serial	~	Browse
Learn more about <u>Bluetooth device COM ports</u> .		Cancel

**Final Step.** Run the Dynacom software, and use the Port that was assigned to the Flow Computer via Bluetooth just as a regular serial port.

## Guide for computers with Broadcom<sup>™</sup> Bluetooth<sup>™</sup> Stack

Step 1. Run the "Bluetooth Devices" dialog, this can be done from the system tray by clicking on the Bluetooth icon<sup>3</sup>.

📀 E-Lite - [WinSFC1]	🔇 🖸 🖂 🕴 1:45 PM

**IMPORTANT:** Please verify that the Flow computer is turned ON, it is configured to communicate using Bluetooth<sup>M</sup> and it has a Meter ID name.

💈 My Bluetooth Places Step 2. Click on "View Devices in Range" to detect the Flow computer. Eile <u>E</u>dit <u>V</u>iew Bluetooth Favorites <u>T</u>ools Help -÷ Folders • Back Search \* Bluetooth Tasks Bluetooth Setup Wizard liew My Bluetooth services View devices in range Click Here 🚱 View or modify configuration Shows Bluetooth devices that currently can be accessed. Other Places \* 🕑 Desktop 🛃 My Computer 🛅 Bluetooth Exchange Folder My Network Places 🛀 Printers and Faxes Details \* My Bluetooth Places System Folder

**Step 3.** The Flow Computer should be found as an unknown type device and the Meter ID as the device name. Double-click on it to identify available services.



**Step 4.** The AT serial service should be automatically discovered, if not click on "**Discover services**" on the left task panel. The AT Serial service should appear on the screen.





Step 6. Click on the "Bluetooth Security Code required" balloon popping up from the Windows tray bar and enter the paring key 1234 on the field provided.



<u>Step 7.</u> After the pairing is complete, a new serial port will be assigned to the device, note this port number since you will need to set the Dynacom software to use this port (on the sample picture the port assigned was COM8)

AT Seri	ial 🔹 🕄 🔀
	The Bluetooth serial port COM8 is now configured to connect to the device Dynamic.
	The Application that will use this connection must be configured to use COM8.
	The application may be started at any time.
	Do not display this message again
	ОК

Final Step. Now on Dynacom set the port settings to use the new port assigned to the Bluetooth device, in this case port 8.

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Configuration File View Tools Calibration Override Historical Data Window Help					
0 🖻	🖬 🚳 👪 🤋	🖮 🖗 🚥   🖻 📴 🖪   💡		Comm. Status: OFFL	
Configure Diagnose & Calibrate PID Loops Historical Reports System Snapshot	WinSFC1 Unit ID: Sw Analogs Output 1 Multivaria DP Pressure Temperature	Communication Settings Serial Parameters Comm. Port: 8 Baud: 9600 • Parity: NONE • Data Bits: 8 • Stop Bits: 1 • Modbus Type: RTU • Auto Detect Settings Flow Control DTR Control: Enable • RTS Control: Disable • CTS Control: Disable • CTS Control: Disable •	Use Internet Protocol IP Address 10.1.1.1 Port 502 Protocol 1 - ModbusTCP Unit ID: Timeout (in secs) Retry times 0 Calibrate	1 2 3 ate ification	
]	Alarms				
					11.