

Polimaster
Personal Radiation Detector

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via Bluetooth

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Connecting a Personal Radiation Detector via Bluetooth

If you are using a Polimaster Personal Radiation Detector supporting Bluetooth communications interface, you have a possibility to utilize the advantages of Bluetooth radio channel connection. As different from an IrDA connection, a device connected to PC via Bluetooth should not be necessary placed directly in front of the computer receiving device to establish a connection. The only requirement is to move the device not farther than 10 meters from the computer it is intended to be connected to. This allows much better flexibility when having to download data from a detector, because the device must not be even removed from a carrying case to be connected to a PC.

For a trouble-free connection of PRD device via Bluetooth the following conditions must be met:

- The instrument must be on with the Bluetooth communication enabled.
- The personal computer must be equipped with a properly functioning Bluetooth adapter.
- The instrument must be not farther than 10 meters from the computer for the connection to be possible. If there are any obstacles between them (especially concrete walls) the maximum possible distance is even smaller. The recommended distance ensuring stable data connection is about 3-5 meters without obstacles.

Below you can find a step-by-step instruction on PRD device connection via Bluetooth.

Please note, that it is necessary to perform the search for the instrument in the following cases:

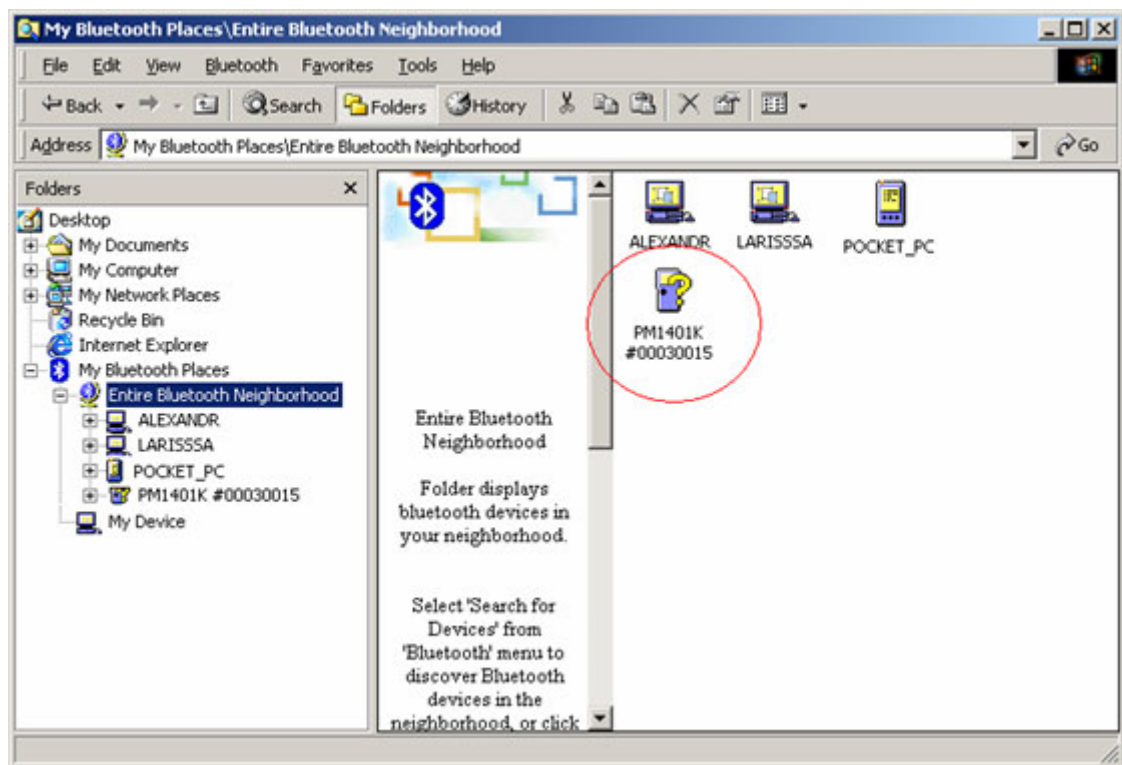
- The instrument has never been connected to this computer;
- The PC was restarted;

The Bluetooth connection is enabled in the instrument, but the software is unable to find the instrument when it attempts to read data from it.

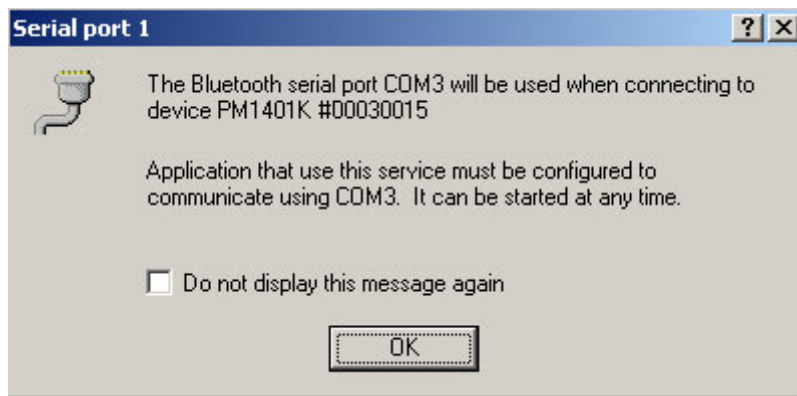
Connection Instructions

In the present example of connecting a PRD device to a PC via Bluetooth it is assumed that the PC is equipped with a "Tecom" Bluetooth adapter, the adapter drivers are installed and functioning properly, in which case a Bluetooth icon (📶) is displayed in the system tray. To connect a PRD device to your PC via Bluetooth interface perform the following steps:

- Switch on the Bluetooth connection mode in the PRD device as described in the point 3.2.7.2 of the instrument Operating Manual.
- Make sure that the PRD device is within the recommended Bluetooth operation range.
- Right-click on the Bluetooth icon in the system tray and select the **Explore** command from the subsequent context menu. In the displayed explorer window expand the Bluetooth Neighborhood node to see all the devices currently connected to the computer via Bluetooth.
- Select the **Search for devices** command from the explorer **Bluetooth** menu.
- When the PRD device is found, the corresponding icon will be displayed among other Bluetooth devices in the Bluetooth Neighborhood explorer:



- Double-click the PRD device icon.
- When the Bluetooth device folder is opened, right-click on the Serial Port icon, then select the **Connect to Bluetooth Serial Port** command from the subsequent context menu.
- If the connection attempt is successful you will see the following dialog box displaying that a virtual COM port is used for information exchange between the instrument and PC.

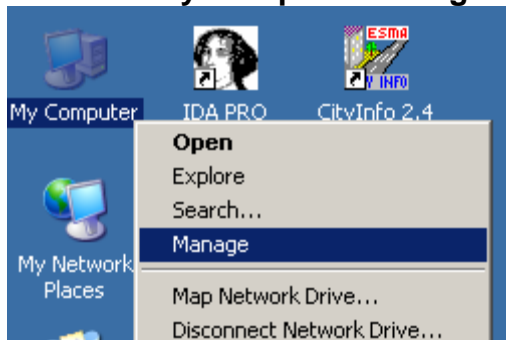


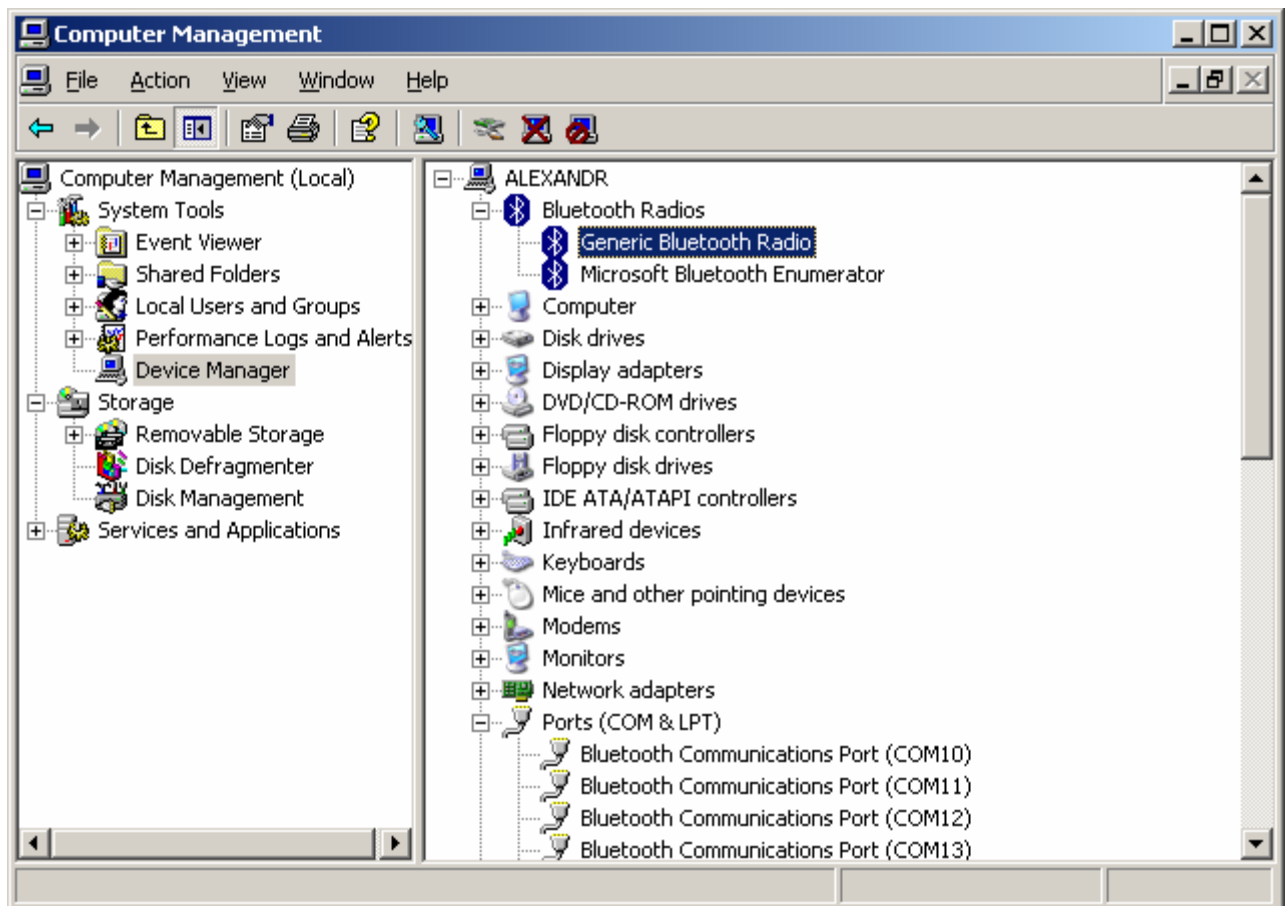
- Press OK to close the dialog box.
- The Bluetooth connection with the PRD device is up and running, which should be indicated by an on-line LED lit on the Bluetooth adapter.

If you meet any problems with Bluetooth Adapter connections, please follow our instructions below.

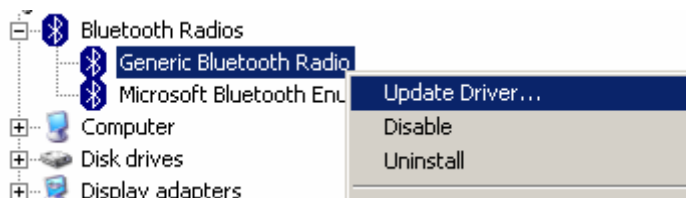
Before Bluetooth Adapter connection, please check that the adapter drivers are installed and functioning properly, in which case a Bluetooth icon (📶) is displayed in the system tray. Please restart the computer and perform the following steps:

- Select **My Computer\Manage\Device manage** command





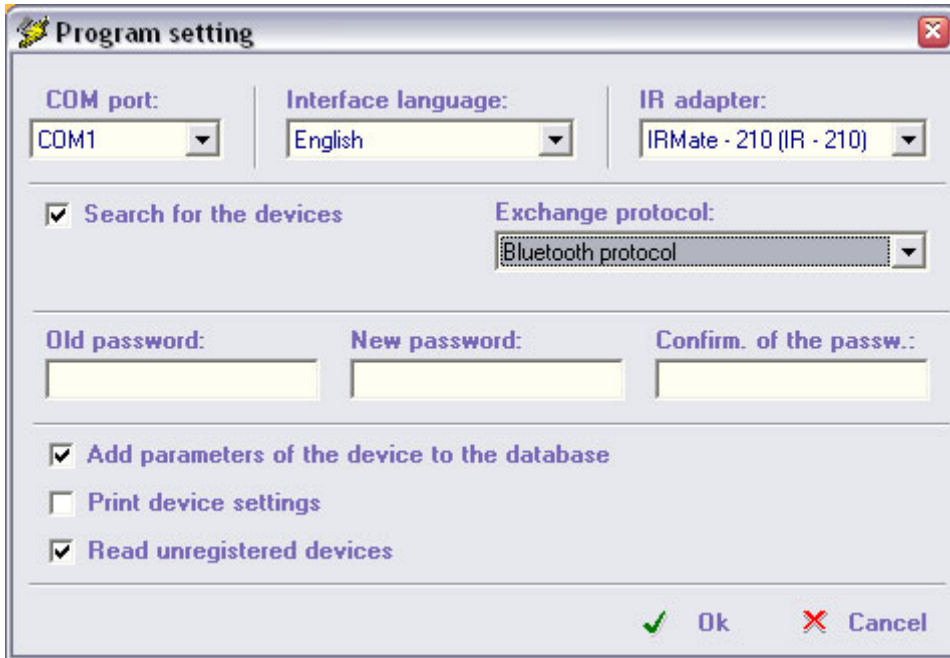
- In section "Bluetooth radio" select **Generic Bluetooth Radio** command and update the driver. The next window will be "Hardware Update Wizard"



- Sequentially in the appeared windows select the following commands "Don't connect to Windows Update" (No, not this time) / "Install from a list or specific location" / "Don't search. I will choose the driver to install" / "CSR USB Bluetooth Device".
- In the last window select "Yes" command and wait for installation finalization
- Than repeat the instruction described in the beginning of the Clause "Connection Instructions"

Working with the Instrument

With the Bluetooth connection established the downloading of the measured data from the instrument should start automatically. Please, make sure that the Bluetooth exchange protocol is specified in the PRD software settings:



Program setting

COM port: Interface language: IR adapter:

☒ Search for the devices Exchange protocol:

Old password: New password: Confirm. of the passw.:

☒ Add parameters of the device to the database
☐ Print device settings
☒ Read unregistered devices

✓ Ok ✗ Cancel

If you have the administrator password for the connected instrument, you can change the instrument settings using the current Bluetooth connection:



Instrument settings

Instrument	PM1703GN
Instrument #	1
Instrument date/time	3/22/2006 12:42:00 PM
Data recording interval, min.	60
Coefficient n, gamma	5.3
Calibration time, sec.	36
Coefficient n, neutron	1.0
DER threshold, Sv/h	1.000E-04
Quick off	<input checked="" type="checkbox"/>
Auto calibration	<input checked="" type="checkbox"/>
Allow setting alarms	<input checked="" type="checkbox"/>
Audible alarm	<input checked="" type="checkbox"/>
Vibration alarm	<input checked="" type="checkbox"/>
Enable changes coeff. n	<input checked="" type="checkbox"/>
Registration neutron	<input type="checkbox"/>

Write Read Close

Disconnecting from the Instrument

To disconnect the instrument from your PC open the Bluetooth Neighborhood explorer, right-click on the communication port icon inside the PRD device folder and select the **Disconnect Bluetooth Serial Port** command from the subsequent context menu. Press yes in the displayed window to confirm the link interruption.