

# Uploading 'O Curves' onto BP/Uni-Sim



Manufacturers of NIBP monitors all use slightly different software algorithms to determine Systolic and Diastolic values. By creating a custom 'O Curve' for a particular pressure simulation the BP-SIM can be made to match the NIBP Monitor much closer than using a Default 'O Curve'.

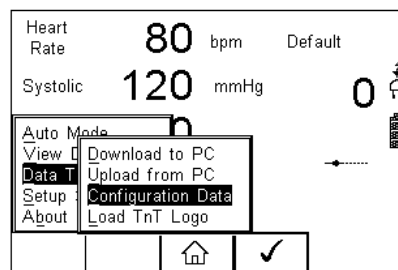
The purpose of this document is to provide information on how to create new 'O Curves' for an NIBP monitor. This document will also explain how to load the curve into the BP/UNI-Sim.

## Items Required

- PC with Bluetooth connectivity
- Calibrated BP-SIM unit
- Data Transfer software (found on Rigel Utilities CD)

## Uploading 'O Curve' to BP/UNI-SIM

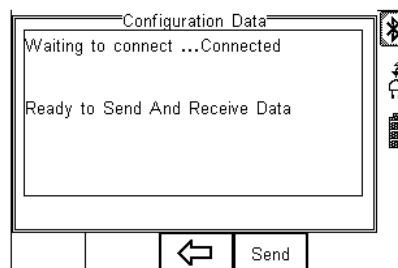
- 1) In order to get the new 'O Curve' into the BP-SIM switch on the unit and select F4 . Select soft key D of scroll down to Data Transfer and press the Right Arrow button. Select C or Configuration Data and press F4 



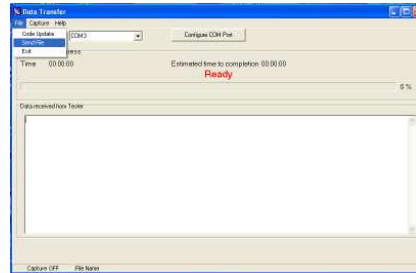
- 2) At this point the BP/Uni-Sim will attempt to make a Bluetooth connection with the PC

## Note:

Application note 0035 details Pairing Bluetooth with Rigel devices




- 3) Once a Bluetooth connection is made the screen above will be seen. At this point start the Data Transfer.exe software on the PC. Select File and Send File.





- 4) Change the Files of Type to All Files. Select the .csv file to be transferred and hit Open



- 5) The file will be transferred in around 2 seconds. The BP/Uni-Sim will show Valid Data Received.

- 6) Press F3  to return to the main screen.

#### Testing the uploaded 'O Curve'

The new 'O Curve' can be selected by pressing NIBP (F3) followed by  (F4) to select NIBP Test Settings. Use the arrow buttons to select the new Monitor Type and the Systolic/Diastolic values. Press  (F4) when complete.

Press the Green Start button and then start the monitor reading.

It is recommended that if 20 tests are performed on an 'O Curve' the average Systolic and Diastolic readings should be within  $\pm 1$  mmHg of target and the repeatability over the 20 tests should be within  $\pm 3$  mmHg of target.

End