AutoStop Mini Plus2

Hand Held Brake Tester

AUSTRALIAN MADE AND OWNED

Licence ID number: 10242

AUTO TEST
Products Pty Ltd®

DECLARATION OF CONFORMITY

We, AutoTest Products Pty Ltd. declare under our sole responsibility that the product is in conformity with the provisions of the following Council Directive: 1999/5/EC.
A copy of the Declaration of Conformity can get it from sales@autotest.net.au.

Table of Contents

AutoStop Mini Plus2 Brake Meter

1   UNPACKING AND FIRST TIME USE

Congratulations on your choice of an AutoStop Mini Plus2. Please take the time to read this User's Manual before using the AutoStop Mini Plus2 in the field. Incorrect or inappropriate use of this instrument may void the warranty. Retain the packing materials for future shipping and transport of the unit for periodic calibration.

Please complete the warranty registration card and post it to AutoTest Products Pty Ltd, alternatively visit our website **www.autotest.net.au** and complete your warranty registration online. Your warranty registration ensures that you are kept up-to-date on any software or hardware changes to your AutoStop Mini Plus2.

The packing box of your AutoStop Mini Plus2 should contain the following:

1. AutoStop Mini Plus2
2. User Manual
3. Warranty Registration Card
4. Calibration Certificate
5. Data Logger USB added

Optional Accessories:

- MiniPlus Data Logger Software
- Bluetooth Wireless printer
- Rare Earth magnet motorbike kit

AutoStop Mini Plus2 determines triaxial deceleration, measuring forward as well as sideways deceleration (lane change). AutoStop Mini Plus2 has a twelve-button operation via a tactile membrane keypad with LCD display. It is lightweight (500grms) and compact (200x70x40mm) and can be installed anywhere in the vehicle.

1.1 Unit activation

When you receive your new Meter, you must activate it before you can use it. When you turn it on for the first time, you will come to the main menu. The first option on the menu will be "Activate".
Press the ENTER key to begin activation. You are now prompted to enter the 5-digit serial number, one digit at a time. Press ENTER to confirm, DEL to re-enter. Once your meter is activated, it is ready for use, and you will never need to perform the activation again.

1.2 Self-Test and Battery Check

The self-test function is activated each time the AutoStop Mini Plus2 is powered, it checks the clock, the battery level and the calibration due date. The sequence as follows: - after initial power up and start-up splash screen sequence the display will indicate "**Test**?". If the battery does not have sufficient charge to be used, then it will display **"Warning: Battery Low"**.

2   FOR YOUR SAFETY

Read these simple guidelines. Not following them may be dangerous. Read the complete user guide. Further detailed information is given in this manual.

SWITCH ON SAFELY

Do not switch the device on when wireless device use is prohibited or when it may cause interference or danger.

SWITCH OFF WHEN REFUELING

Do not use the device at a refuelling point. Do not use near fuel or chemicals.

SWITCH OFF NEAR BLASTING

Follow any restrictions. Do not use the device where blasting is in progress.

USE SENSIBLY

Use only in the positions as explained in the product documentation.

QUALIFIED SERVICE

Only qualified personnel may install or repair this product.

ACCESSORIES AND BATTERIES

Use only approved accessories and batteries. Do not connect incompatible products.

WATER-RESISTANCE

Your device is not water-resistant. Keep it dry.

CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

3 OPERATION

3.1 Test Conditions and Test Area

The vehicle must be stationary (at a complete stop) prior to commencement of the test. Ideal conditions are to test the vehicle at a location where no other or only few vehicles are present. However, if it is necessary to use another area, such as a public road, only commence the test if there is no danger of an accident.

The test area should be a sealed, flat bitumen road. The headwind should be less than 15km/h. Test starts with first movement of the vehicle, and concludes when the vehicle comes to a complete stop. The forward direction of the vehicle is determined when the vehicle first starts to move. For example, if the test is started when the vehicle pulls out from the kerb, then the calculated forward direction will be at an angle to the true forward direction. The first movement of the vehicle must be in the forward direction. Please be sure to follow the brake test procedure detailed in the latest version of the relevant Inspection Manual when carrying out a statutory test.

3.2 Set-Up in Vehicle

Attach the Mini Plus2 to the dashboard, front passenger seat, foot well or centre console so that the screen is clearly visible and the buttons are accessible. AutoStop Mini Plus2 is self-aligning by identifying its orientation during acceleration at the beginning of each test - Mini Plus2 can be installed at any angle facing any orientation, but must be secure for the entire duration of the test as movement can cause wrong deceleration readings.

Note: If Mini Plus2 is configured for use in heavy vehicles, it should only be mounted flat on a levelled surface, or on the side-window of the vehicle using suction cup mounts. In such cases, if the tilt angle of the device is outside the tolerance level, the device will display "Slope too large". The tilt warning message will disappear automatically once the slope angle of the unit is adjusted to the level plane (in reference to ground).

3.3 Changing the units

The resultant average deceleration and max deceleration can be viewed in different units like g, m/s2 or %. The speed, stopping distance and the side shift can be viewed in imperial and metric units. To select the units, press ON/OFF button to power up the unit. The display will show **"Test?"** press —> until it displays **"Set Accel. Unit?"** to change the units of average and maximum deceleration. There are three options for acceleration units: m/s2, g or %. Press —> to select a unit and ENTER to set a unit.

Acceleration Units
m/s2
g
% (where O% = 0.00g, 100% = 1.00g)

The units of speed, stopping distance and side shift can be changed to imperial or metric. Select **"Imperial/Metric?"** option from the main menu. Press ENTER. Select imperial or metric units and press ENTER. The speed, stopping distance and side shift in both units are as follows:

Unit	Imperial	Metric
Speed	Miles per hour (mph)	Kilometer per hour (km/h)
Stopping distance	Feet (ft)	Meter (m)

3.4 Running the Test

Turn on AutoStop Mini Plus2 by pressing ON/OFF. The Mini Plus2 will go through a start-up procedure and show the calibration due date. The display will show "Test?" press 'ENTER'. The Mini Plus2 will initialise the test procedure by prompting the user to enter "Examiner ID", "Customer Name" and "Vehicle Registration No." The Mini Plus2 will remember the previously stored Examiner ID. To change the Examiner ID, press —> then key-in the new ID.

The Mini Plus2 will then show "Press any key to commence the test". After pressing any key, the display will show "Ready to go". Drive the vehicle to the desired test speed and apply the brakes. When the vehicle has come to a halt the Mini Plus2 will finish the calculations and will display the results – you can then simply compare them with the specific brake values according to your local regulations. The results that will be displayed are:

1.   Average Deceleration
2.   Maximum Deceleration
3.   Test Duration

3.5 Test Instructions Summary

SCREEN DISPLAY	INSTRUCTION	KEYS TO PRESS
Blank Screen	**Switch ON**	**ON / OFF**
Initial Splash Screen		**Press any key to skip**
Test ?	**Start to run test**	**ENTER**
Examiner?	Enter Examiner ID if it is not stored previously	Press —> key and key-in ID and press ENTER
Customer:	Enter customer name	Key-in customer name and press ENTER
Reg No:	Enter the Registration no	Key-in registration no and press ENTER
Test with GPS?	Conduct test with GPS	Press ENTER for YES and any other key for NO
Press any key to commence the test	Press any key to commence the test	Press any key to commence the test
Ready to go...	Accelerate the vehicle	
Prelude...	Forward direction detected. Keep accelerating to desired speed, then brake	

SCREEN DISPLAY	INSTRUCTION	KEYS TO PRESS
Sampling...	Wait for result	
Calculating...	Wait for result	
Save?	To save test result	Press ENTER to save or —> to go to next item
Print?	To print test result on remote Bluetooth printer	Press ENTER to save or —> to go to next item
Print Another?	To print duplicate test result	Press ENTER if you want to print the test result or press —>
Repeat Test?	To repeat same test	Press ENTER to repeat the test or —> to go to main menu.

Must:

– Fix Mini Plus2 securely

– Install in a stationary vehicle

– Must drive in a straight line

Must not:

– Turn car after starting test

– Hold unit in hand or on body

– Move Mini Plus2 after pressing start

– Skid wheels

"A good stop is like stopping at a traffic light – steady."

3.6 Other Functions

- **View Results? :** Press ENTER and display will show the test number and the date and time of test. Press —> to select the required test number and press ENTER to view each test result. Mini Plus2 can store up to ninety-nine test results. At the end there is a **"Clear Results?"** option to clear all test results. The Mini Plus2 will hold ninety-nine tests and will display **"Memory full"** when the memory is full and stored data has to be cleared.

- **Set acceleration units?:** Press ENTER to select acceleration unit. The acceleration units can be changed to g, percentage or m/s2

- **Imperial/Metric?:** Press ENTER to change to Imperial or Metric units.

- **View Clock?:** This function is for viewing the date and time set on Mini Plus2. Press ENTER to view the clock

- **Battery Life?**: Press ENTER to view the battery life of the Mini Plus2.

- **View Accel?**: This function is to view the X, Y and Z-axes of the accelerometer. Press ENTER to view these values.

- **View Test Count?**: This function is to view the total number of tests carried on the Mini Plus2 after calibration. Press ENTER to view the test count.

- **Print type?**: This function is for the Bluetooth printer. Press Enter to select the Bluetooth. Press Yes or NO for pairing the Mini Plus2 with printer.

- **Language?**: This function allows users to select a different interface language such as English, French and Spanish. Press ENTER to view available languages. Note: results obtained using French language will be based on SRV-P036 standard.

- **Delete Data?** : Select the Delete or Delete all function to clear the results from the Mini Plus2.

3.7 Printing on Bluetooth printer (optional accessory)

In order to print the test results on Bluetooth printer, switch on the printer and give print command from the Mini Plus2. Mini Plus2 will display "Finding printer" while searching for the Bluetooth printer. Once the Bluetooth printer is found, Mini Plus2 will automatically issue the printout of the test via the Bluetooth printer.

Note: When Mini Plus2 is not able to find a Bluetooth printer it will display "No printer found" and it's going to show "Try again" on the LCD screen. Switch OFF the Bluetooth printer and switch it back ON and it will try to pair the printer with Mini Plus2.

3.8 Menu Reference

Display Main Menu	Display Sub Menu	Description	Keys to Press
Activate Unit?		This to activate the Mini Plus2 as the unit is locked prior to shipment	Press ENTER or —> to view next item on main menu
	Please enter the 5-digit Serial Number code of this unit, then press ENTER to confirm, or DEL to re-enter. Press any key to begin		Press any key to go to next sub-menu
Code: -----		This is to enter the 5-digit serial number code	Key-in the 5-digit serial number and Press ENTER
	Unit Activated	This is an indication that the unit has been activated	Press ENTER

3.8 Menu Reference (cont'd)

Display Main Menu	Display Sub Menu	Description	Keys to Press
Test?		This does not appear if unit is not activated. This is for carrying out the test	Press ENTER
Examiner?	This is for enter the name of the person carrying out the test.		Press —>, when cursor appears key-in the examiner name
	Customer:	This is for entering the name of the customer	Key-in the customer name and Press ENTER
	Reg No:	This is for entering the registration number of the vehicle under test	Key in the registration number and press ENTER
	Test with GPS?	This is to decide whether or not the test require GPS location	Press ENTER for YES and any other key for NO
	Press any key to commence test	This is an indication to press any key to commence the test	Press any key
	Stabilising...	This is when the unit is checking its stability	
	Ready to go...	Accelerate the vehicle to the desired speed	
	Prelude...	This indicates forward motion of the test vehicle.	
	Sampling...	This indicates that the brakes have been applied and it is sampling data for calculation	
	Calculating...	This indicates that the test is complete and the unit is calculating the results	
	Save?	This is for saving the current test result	Press ENTER to save or —> to go to next sub menu

3.8 Menu Reference (cont'd)

Display Main Menu	Display Sub Menu	Description	Keys to Press
	Print?	This is for printing the test result via Bluetooth printer (optional accessory)	Press ENTER to print or —> to go to next sub menu
	Save?	This is for saving the current test result	Press ENTER to save or —> to go to next sub menu
	Print?	This is for printing the test result via Bluetooth printer (optional accessory)	Press ENTER to print or —> to go to next sub menu
	Print Another?	This option is to print another copy of the same test	Press ENTER to print or —> to go to next sub menu
	Repeat Test?	This is for repeating test	Press ENTER
View Test?		This is for viewing the stored data	Press ENTER to print or —> to go to next sub menu
	3/n	This is third (last) result out of n stored results	Press ENTER to view results of the second test or Press —> to go to next sub menu
	2/n	This is second result out of n stored results	Press ENTER to view results of the second test or Press —> to go to next sub menu
	1/n	This is first result out of n stored results	Press ENTER to view results of the second test or Press —> to go to next sub menu
	Clear Results?	This is to clear the results stored on Mini Plus2	Press ENTER to clear stores data or press —> to go back to the main menu
	Are you sure? Y/N		Use —> to select Yes/No, then press ENTER
Set Accel. Unit?		This is to set the units of average and maximum deceleration	Press ENTER to set the acceleration unit or —> to go to next main menu
	Accel unit: m/s2	This is to set the units of average and maximum deceleration in terms of 'm/s2'	Press ENTER to set or —>to select another unit

3.8 Menu Reference (cont'd)

Display Main Menu	Display Sub Menu	Description	Keys to Press
	Accel unit: g	This is to set the units of average and maximum deceleration in terms of 'g'	Press ENTER to set or —> to select another unit
	Accel unit: %	This is to set the units of average and maximum deceleration in terms of '%'	Press ENTER to set or —> to select another unit
Imperial/Metric?		This is to change the units of speed, stopping distance and side shift	Press ENTER to set the units or —> to go to main menu
	I/M: Metric	This is to change the units of speed, stopping distance and side shift to metric	Press ENTER to set the unit to metric or press —> to select another unit
	I/M: Imperial	This is to change the units of speed, stopping distance and side shift to imperial	Press ENTER to set the unit to imperial or press —> to select another unit
View Clock?		This is to view the date and time on the Mini Plus2	Press ENTER to set the units or —> to go to main menu
	Date: dd/mm/yy	This shows the date on the Mini Plus2	Wait until display shows time or Press —> to view time or Press ENTER to go to main menu
	Time: hh:mm:ss	This shows the time on the Mini Plus2. *Note: press '1' to toggle daylight saving. When daylight saving is enabled, '*' will be displayed on LCD.*	Wait until the display shows date or Press —> to view date or Press ENTER to go to main menu
Battery Life?		This shows the battery life on Mini Plus2	Press ENTER to view battery life or press —> to return to main menu
View Accel. ?	This is to view X, Y and Z-axes of the accelerometer		Press ENTER to view acceleration or press —> to return to main menu
	Vsum :	This shows the vector sum of all three axes.	Press —> to view another axis or press ENTER to go to main menu
	X:	This shows the X-axis of the accelerometer	Press —> to view another axis or press ENTER to go to main menu
	Y:	This shows the Y-axis of the accelerometer	Press —> to view another axis or press ENTER to go to main menu

3.8 Menu Reference (cont'd)

Display Main Menu	Display Sub Menu	Description	Keys to Press
	Z:	This shows the Z-axis of the accelerometer	Press —> to view another axis or press ENTER to go to main menu
	Tilt:	This shows the tilt angle of the brake meter	Press —> to switch to another screen or press ENTER to go to main menu
View Test Count?		This is to view the total number of tests carried out on the Mini Plus2	Press ENTER to view the count or —> to go to main menu
Printer Type?		Allows user to configure printer settings	Press ENTER to open menu
	Bluetooth: YES	To enable or disable Bluetooth printer Note: If Bluetooth printer is disabled, the printing will occur via RS232.	Press —> to toggle between "YES" and "NO", press ENTER to save settings and return.
Language?		This allows users to change the unit interface language.	Press ENTER to view available languages
	English?	Changes interface language to English	Press ENTER to select English language or —> to see the next language.
	Spanish?	Changes interface language to Spanish.	Press ENTER to select Spanish language or —> to see the next language.
	French ?	Changes interface language to French. Note: Results obtained using French language will be based on SRV- P036 standard.	Press ENTER to select French language or —> to see the next language

3.8.1 LED Description

LED	RED	ORANGE	GREEN
LED 1	Connected to a USB.	Downloading, either via data logger or firmware updater.	Bluetooth Active.
LED 2	ON ➜ Charging Battery OFF➜ Battery not charging, either because USB is not connected or because it's over heating or because the battery is full.	/	/

3.9 Charging behaviour with USB C Chargers:

1. When the device is powered OFF and a USB-C charger is connected, the device will automatically power on and will subsequently power off after 5 minutes.

2. When the device is powered ON and a charger is connected, charging will begin. The screen will turn off after 5 minutes of inactivity but will immediately turn back on if any key is pressed.

3. When a broken or damaged USB-C cable is connected to the Mini Plus2, the device will display "Battery flat" and turns off the device.

4. Charging the Mini Plus2 from 0% to 100% takes 9 hours.

5. Charging will automatically turn off upon reaching 100%, and turn on again when the battery level drops below 96%. As such, the Mini Plus2 can be left to charge indefinitely with no damage to the battery.

4. DOWNLOADING

The AutoStop Mini Plus2 can hold 99 tests numbered one to Ninety - Nine. Test results stored in Mini Plus2 can be downloaded to a PC using a USB cable, or via Bluetooth interface. To download the tests, a data logger software needs to installed on the PC. The data logger software can be installed from the provided USB or can be downloaded from the Internet.

4.1 Systems Requirements

The Mini Plus Data Logger software is provided free of charge. To download the tests, a data logger software needs to install on the PC. The data logger software can be installed from the Autotest Products website http://www.autotest.net.au. Go to Products - Workshop Equipment - Brake – Auto Stop Mini Plus2 Brake Meter - scroll down the page - Click Download – Auto Stop Mini Plus Data Logger Software.

If you have downloaded the software from the web, simply double - click on the downloaded file to install the software, perform the following steps:

- 1. Select installation file "setup.exe" and run it.
- 2. Follow Setup prompts. Make sure you run the application with administrator level privileges

4.2 Downloading Tests using the Data Logger Software

There are a couple of ways of downloading data from Mini Plus2. The data can be downloaded via USB or Bluetooth. Once the data logger software has been installed, run the software and follow the downloading instructions given below.

4.2.1   Downloading via USB
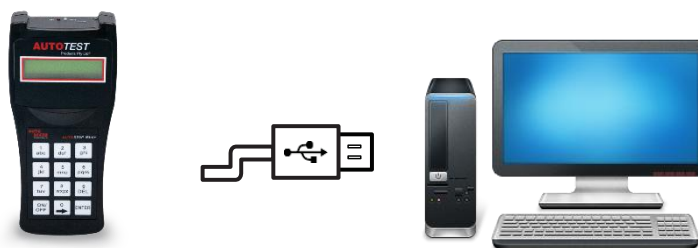
Once the Data Logger software is installed, run the Data Logger software and connect the Brake Meter to the PC via the supplied USB cable.

Once you connected the USB cable to PC, you can see the com port number in the Device Manager Ports (COM & LPT). In the following example, the COM port number is "COM 10".

Once the USB drivers have been installed, Windows will display the following pop-up message each time the brake meter is connected to the PC via USB interface.
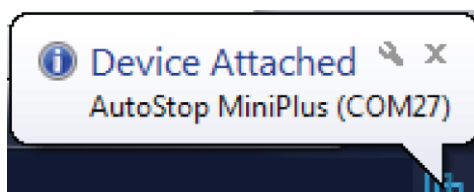
Once you connected the USB cable to PC, you can see the com port number in the Device Manager Ports (COM & LPT). In the following example, the COM port number is "COM 10".
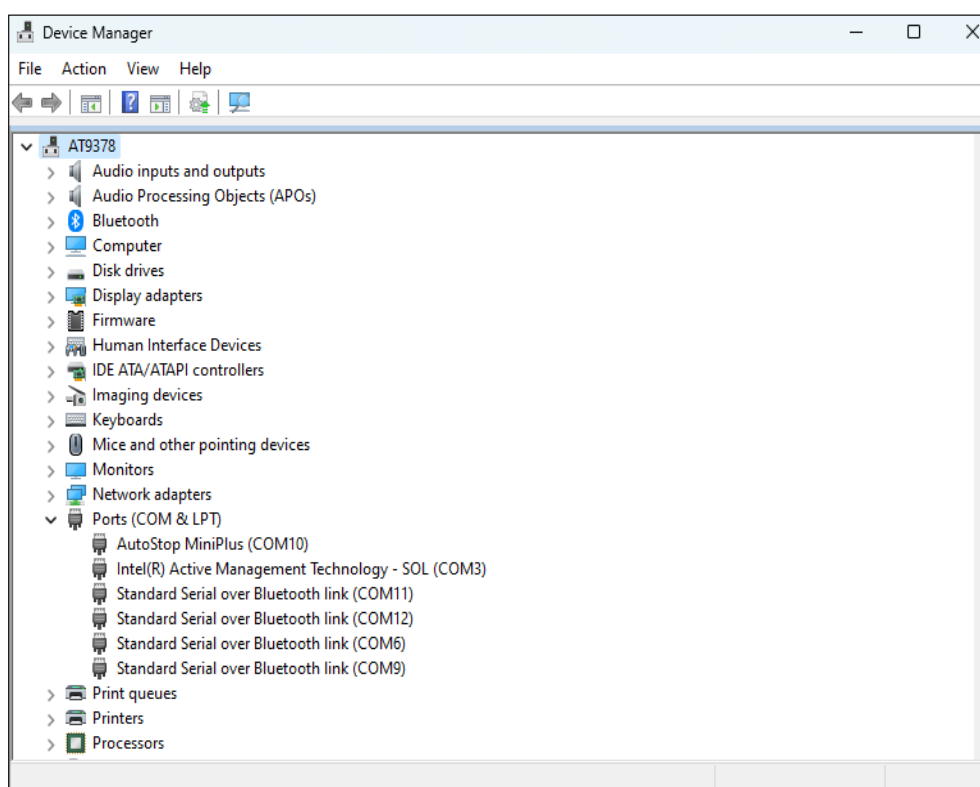
4.2.1 Downloading via USB (cont'd)

To download the results, open AutoStop Mini Plus Data Logger software and click on "Download" button.
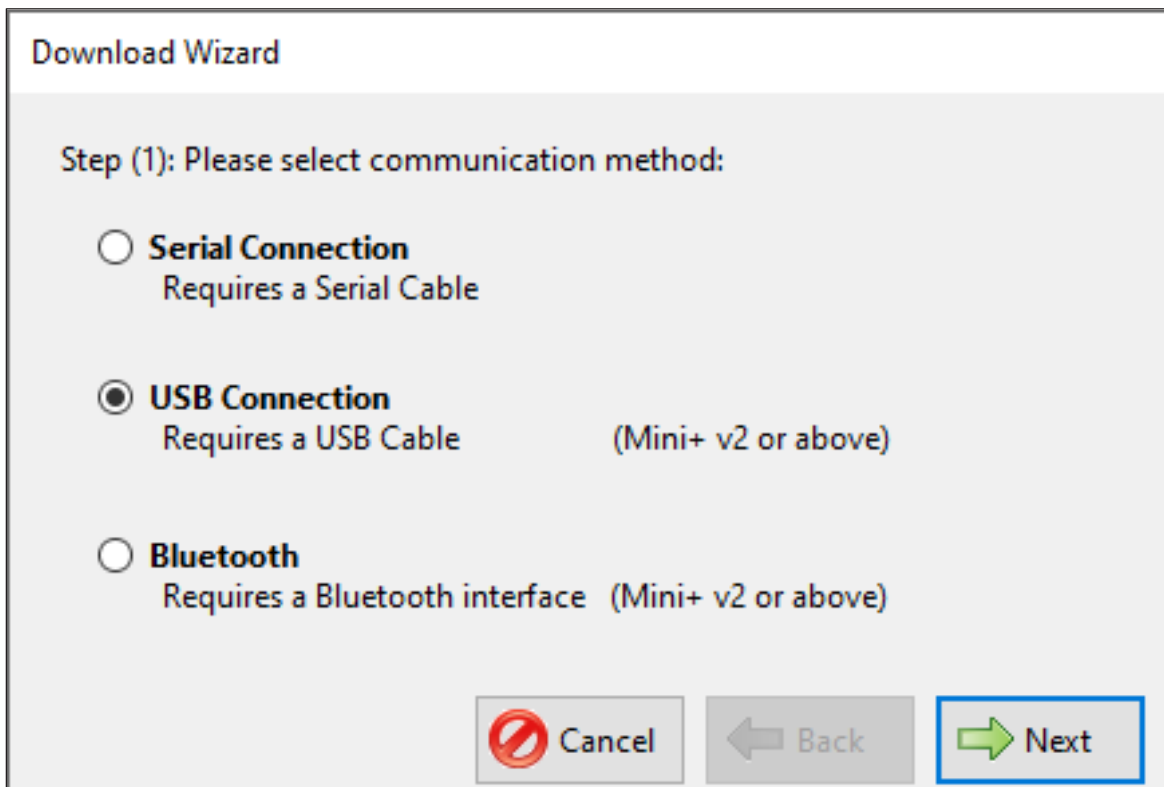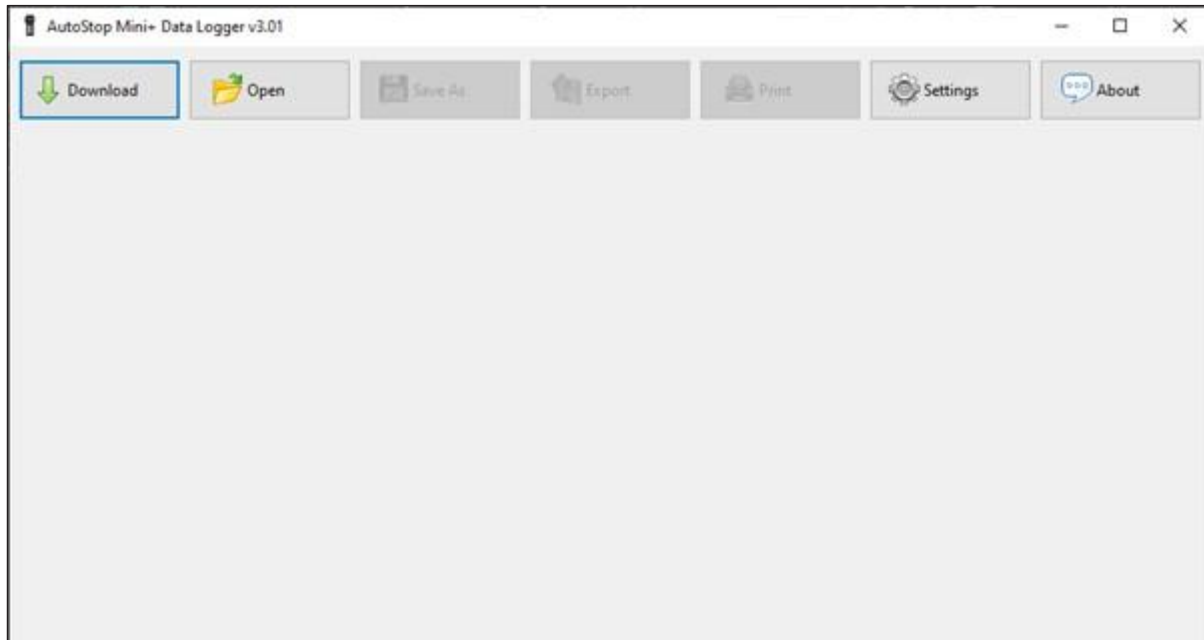
4.2.1 Downloading via USB (cont'd)

Select USB connection and then press Next.

Download Wizard

Step (2): Please make sure your Mini+ is turned ON. Connect the device to the PC via the supplied USB cable.

Step (3): Specify the COM port used by the USB interface on your computer:

COM10

Cancel   Back   Next
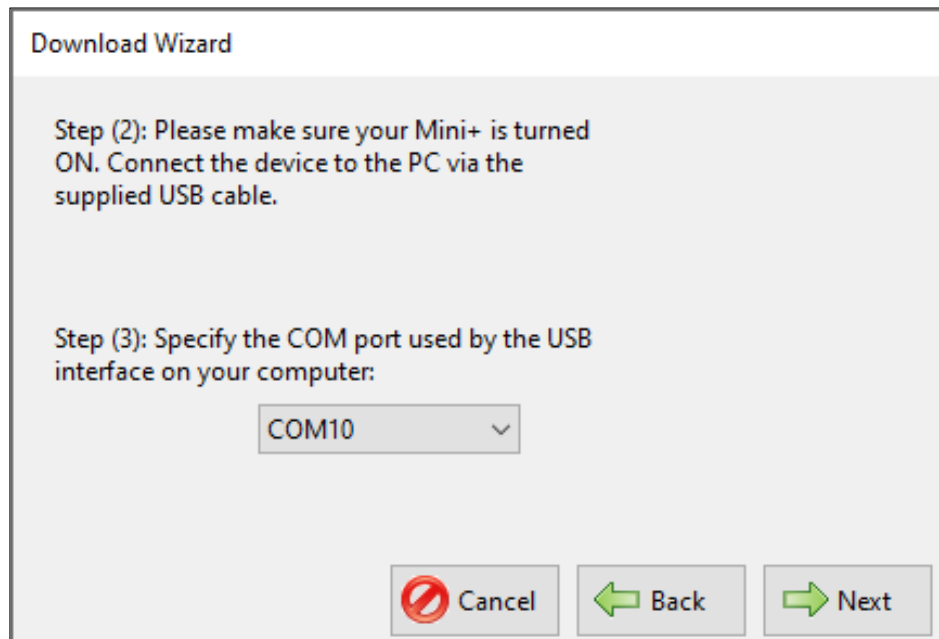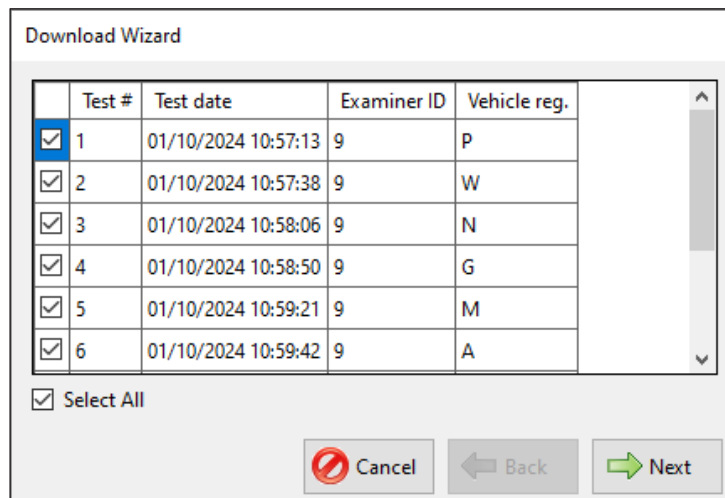
Select the COM port of the USB connection. Make sure the brake meter switched ON and it is connected to the PC via the USB cable. Press Next to continue.

Download Wizard

Step (4):
If you are stuck on this screen for a long time, make sure the Serial Cable is firmly plugged in on both ends, check that you have selected the correct Serial Port, and try switching the Mini+ off and on again.

Cancel   Back   Next
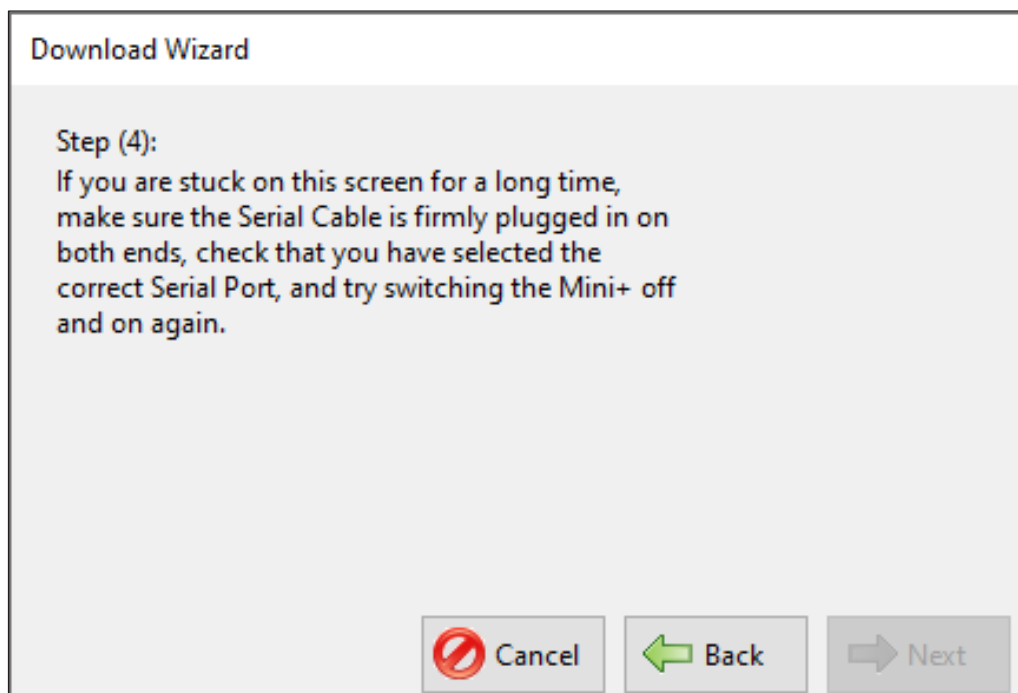
4.2.1 Downloading via USB (cont'd)
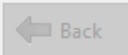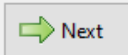
Once the device has been connected successfully, the downloader will display a list of all tests currently stored on the meter.
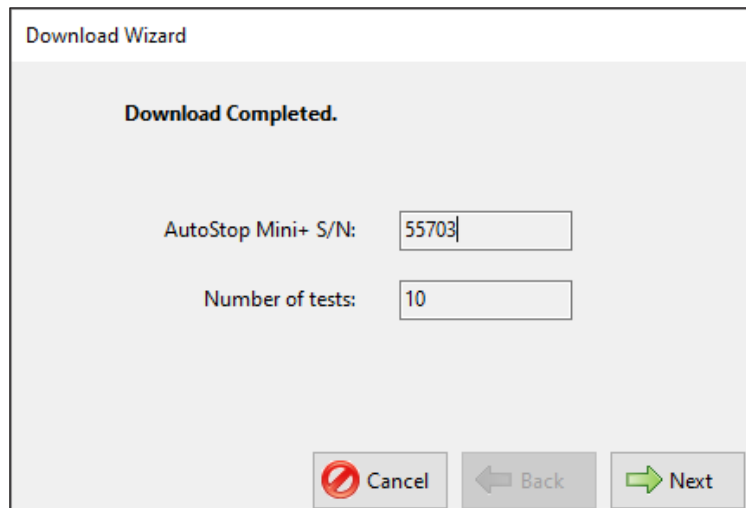
Select the tests that need to be downloaded and then press Next. Data Logger software will automatically download all selected tests.
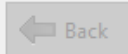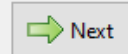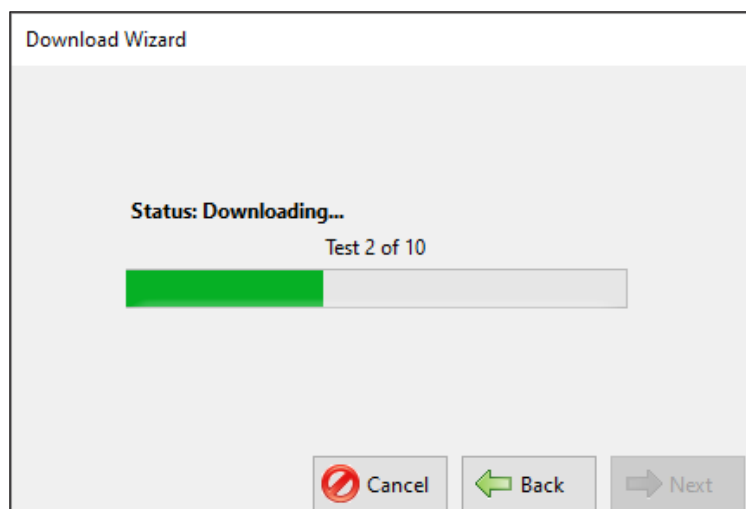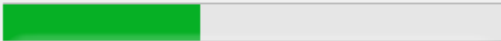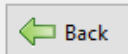
Once the desired tests have been downloaded, press Finish to return to the main window and view test results.

4.2.2   Downloading results via Bluetooth

Before connecting the brake meter to the PC using the Bluetooth interface, make sure the PC supports Bluetooth connectivity.

Once the Data Logger software is installed, run the software on the PC and switch ON the brake meter by pressing the ON/OFF key.

When connecting the Brake Meter for the first time using the Bluetooth interface, user will need to configure the Bluetooth connection. To configure the Bluetooth connection, open your Bluetooth manager program on your PC and search for Min2+##### device, where '#####' is the serial number of the brake meter.
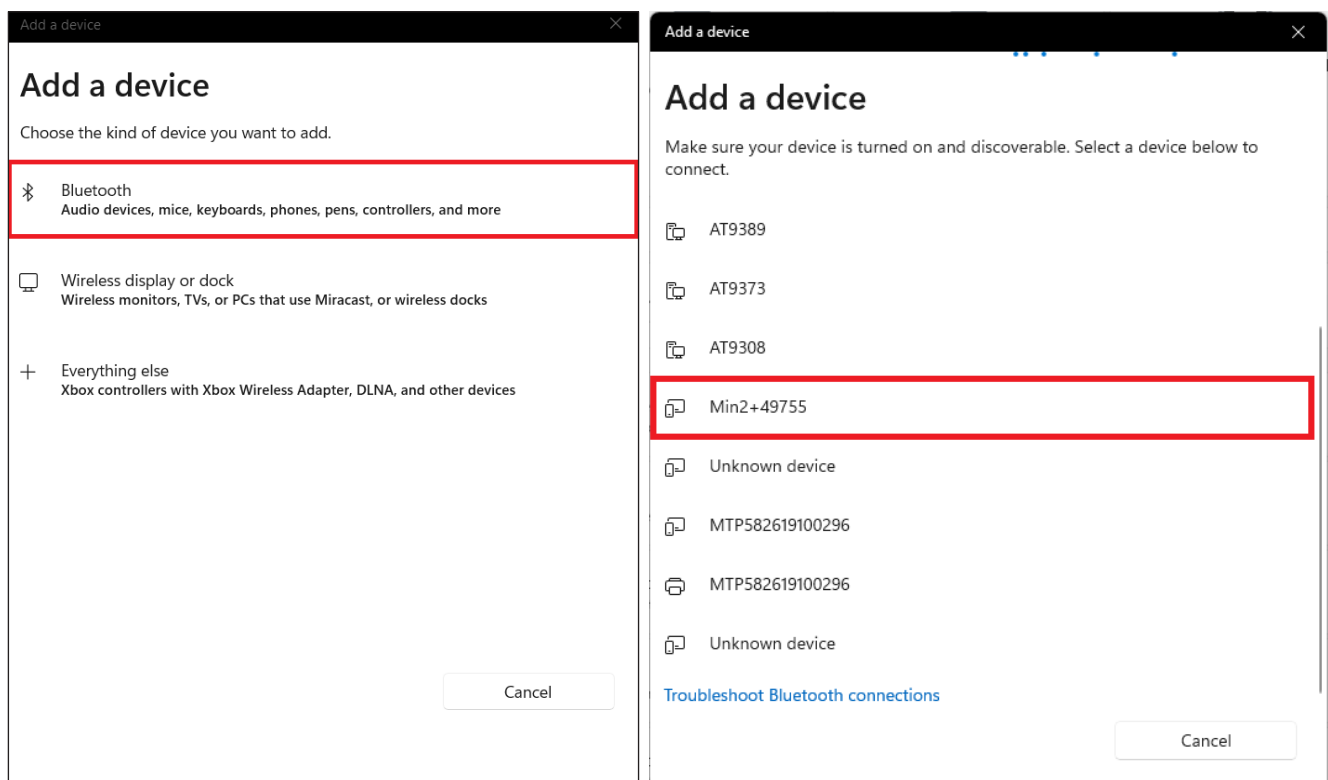
4.2.2 Downloading results via Bluetooth (cond't)

Select the device Min2+##### from the list of discovered Bluetooth devices and create pairing.
When prompted for the pairing code or pin number, enter "0000".
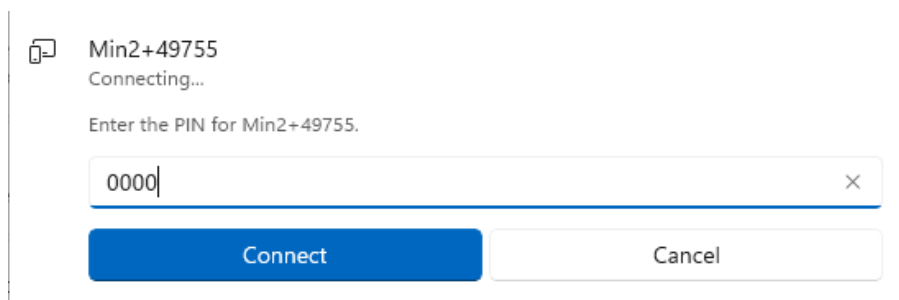
If you have Windows 11, then you need to set your device discovery to advanced instead of default to be able to see the Mini Plus2 in the view more devices of the Bluetooth settings.
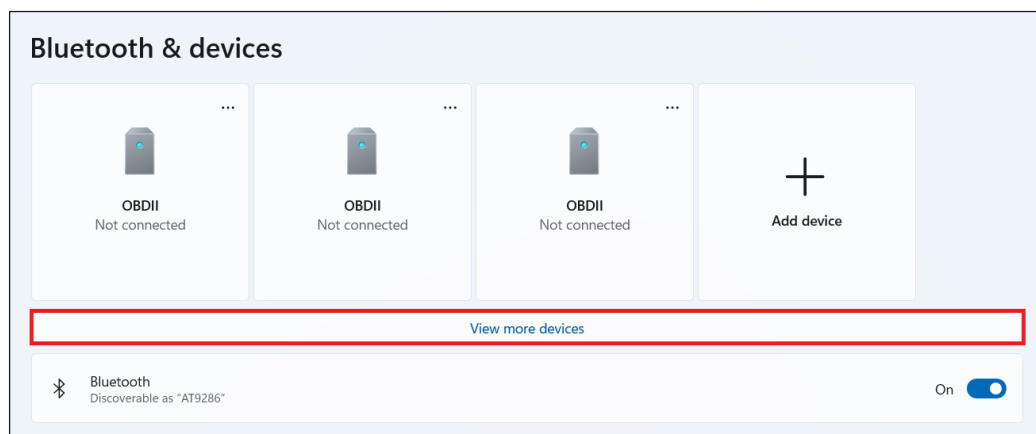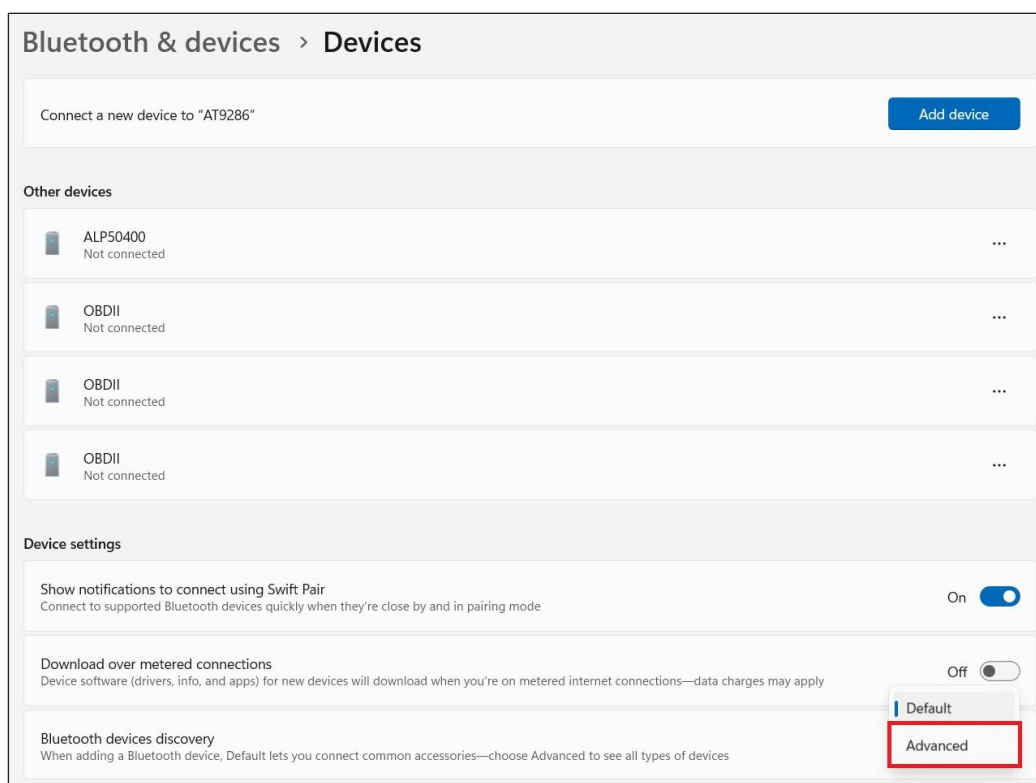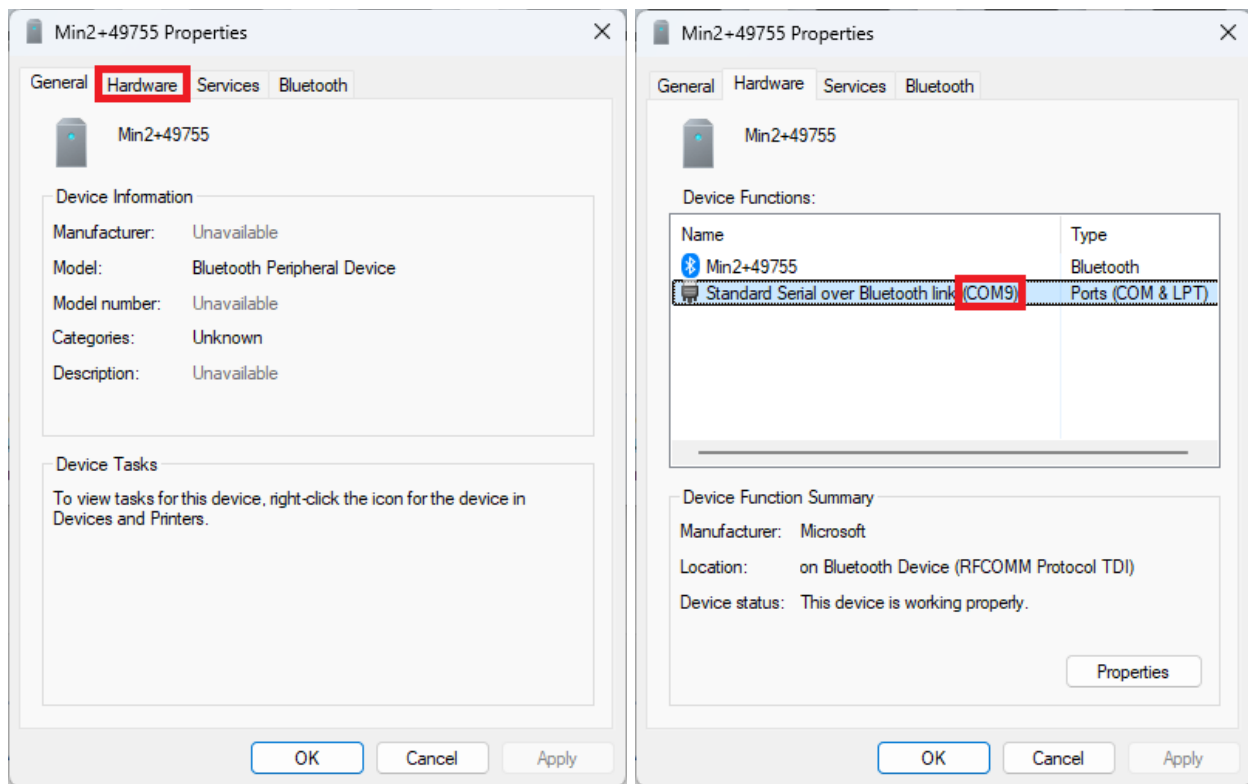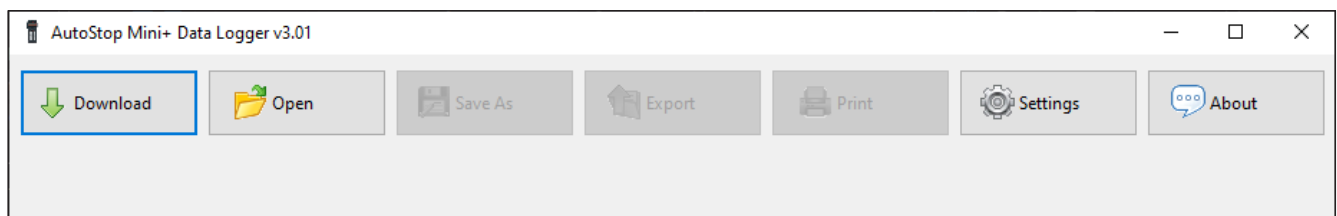
4.2.2 Downloading results via Bluetooth (cond't)
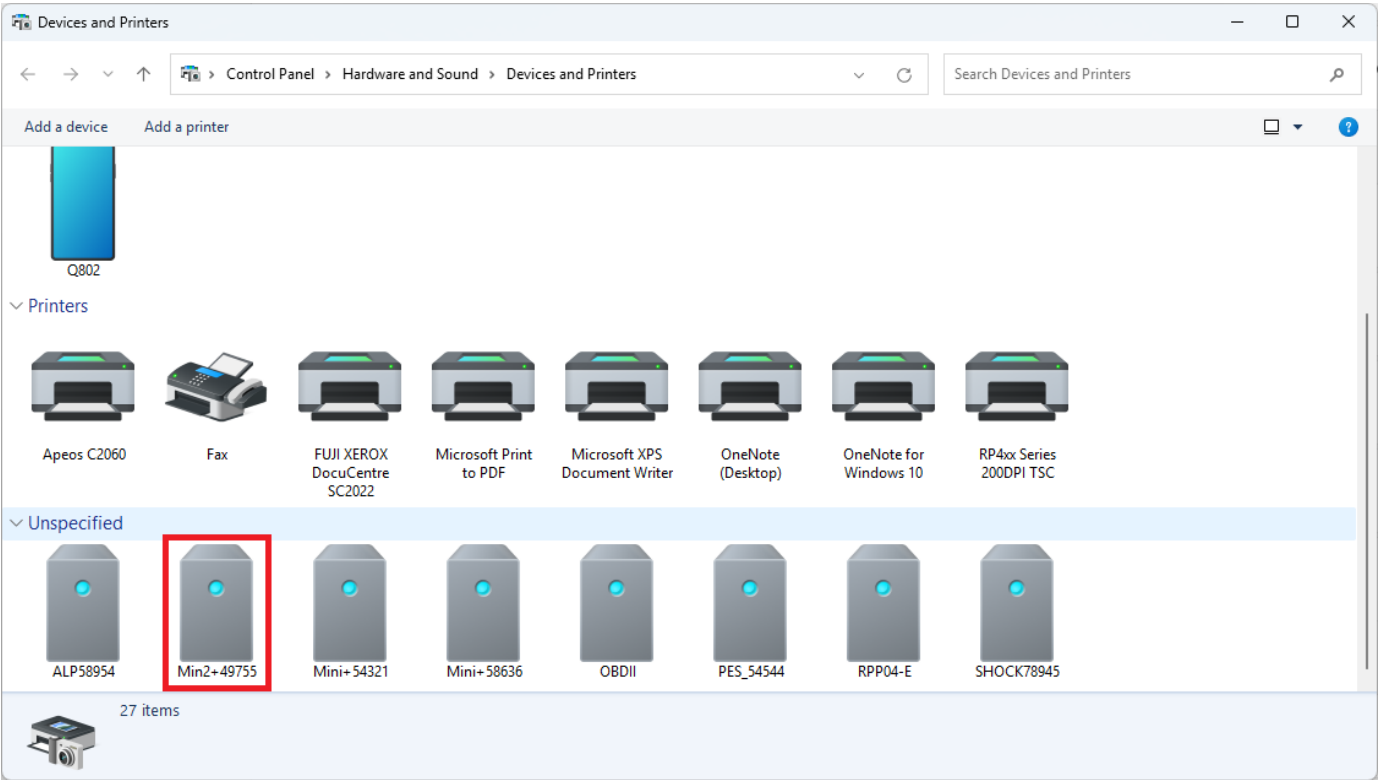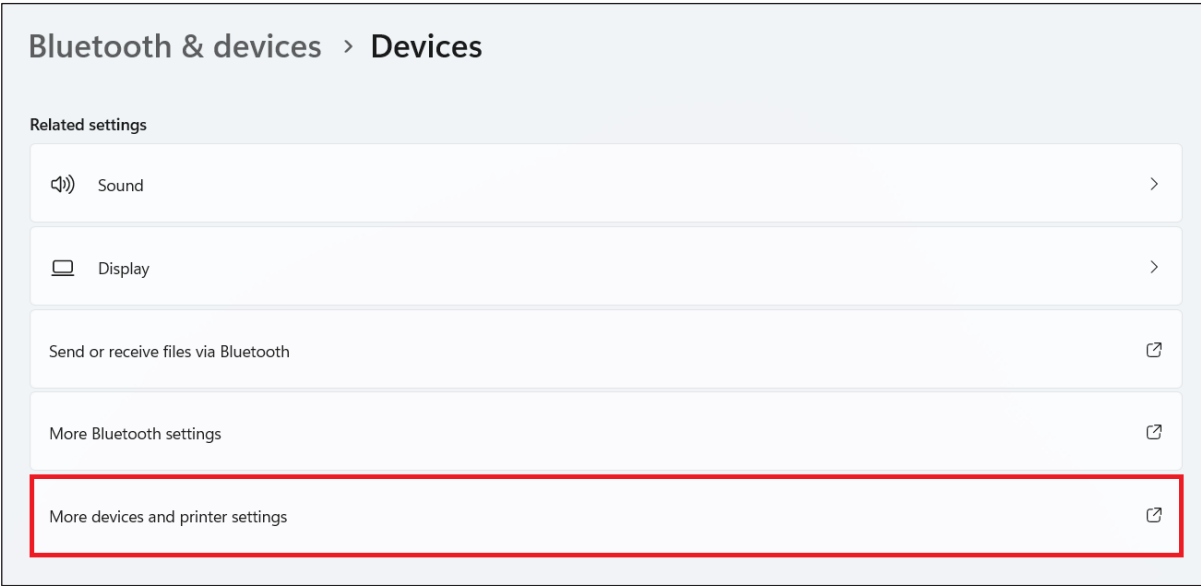
4.2.2 Downloading results via Bluetooth (cond't)

You can find the COM Port for the Bluetooth Connection to the software.

The above-mentioned screenshots may not be the same on every computer. For information regarding Bluetooth device pairing on your PC, please refer to the instruction manual of your Bluetooth managing application.

Once the Bluetooth connection is setup, the user can now download test results from Mini Plus2 using the Bluetooth interface. To download the results, open AutoStop Mini Plus2 data logger software and click on "Download" button.

4.2.2 Downloading results via Bluetooth (cond't)

When the following connection window appears, select "Bluetooth" connection and press Next.

Select the COM port number of the Bluetooth connection connected with the brake meter. The COM port number is the same COM port obtained during the Bluetooth pairing process.

4.2.2 Downloading results via Bluetooth (cond't)

Make sure the brake meter is ON. Press Next to continue. Once the connection is established, the data logger software will acquire a list of all tests currently stored on the device.

Select the tests that need to be downloaded and press Next. Data Logger software will then download the selected tests. While downloading, the LCD screen of Mini Plus2 will display "Uploading 00%...."

Once the desired tests have been downloaded, press Finish to return to the main window and view test results.

4.3 Using the Data Logger Software

The Data logger will display all the saved tests, and you can view the results of the particular test and view corresponding graph for each test.
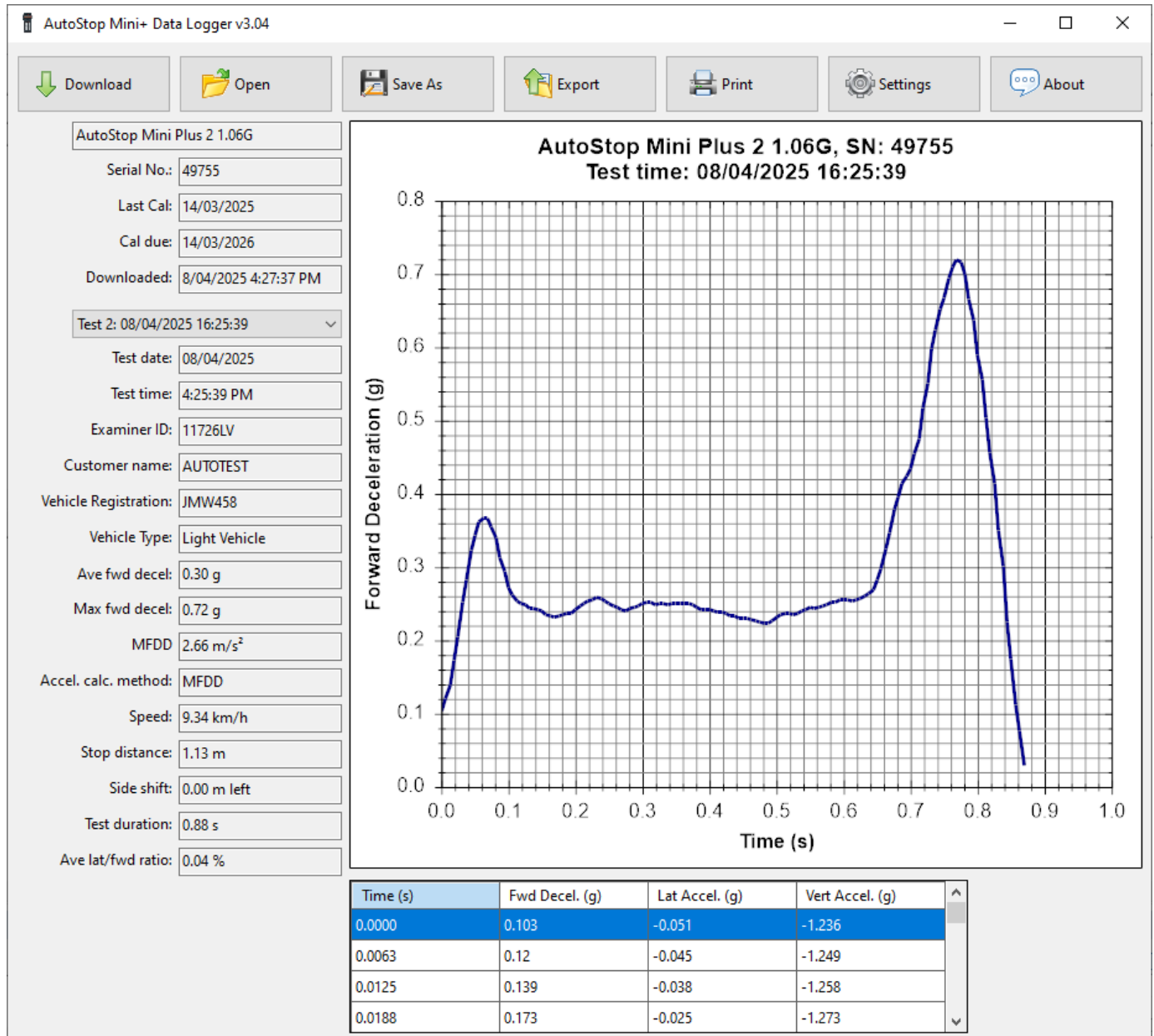
4.3 Using the Data Logger Software (cont'd)

The menu buttons displayed on the top bar can be used to perform the following operations:

1. **Open:** Allows opening a previously saved test file on the computer

2. **Save:** Allows the currently downloaded tests to be saved onto a file on the computer

3. **Export:** This option can be used to view and save the test result in Microsoft Excel compatible format.

4. **Print:** this option can be used to print the test result. When printing the tests, the following box will appear. User can select the printer from which the tests should be printed. In order print only a single or a few tests, enter the range of the tests to be printed out. Click on Print button to print.
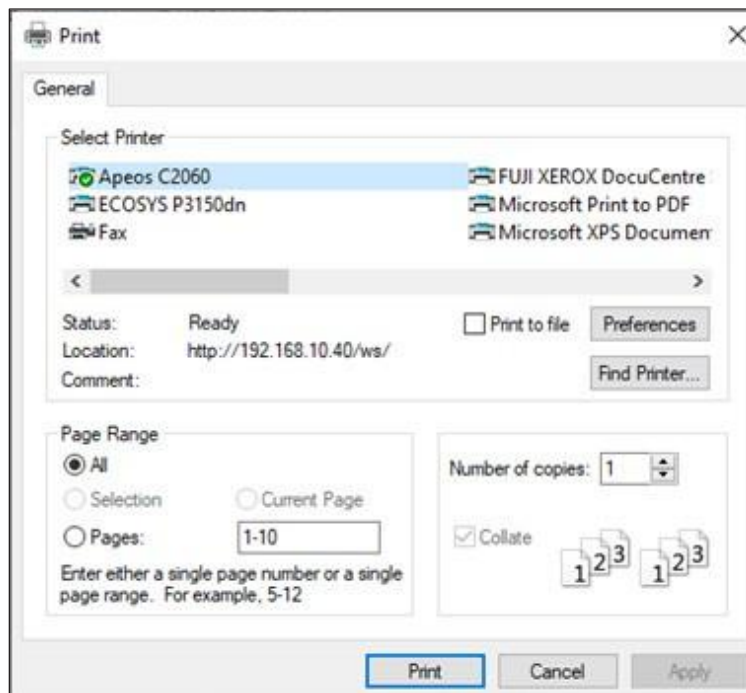
5. **Setting:** this option can be used to view the test results in the units set by the Mini Plus2 or select a different unit to view the test results.

6. **About:** to view information about Data logger.

5. SPECIFICATION

5.1 Hardware Specifications

Measurement Range: -2.0 to +2.0g with accuracy 2.5%

Temperature Range: -10 to +400C

5.2 Features

- Determines tri-axial deceleration, forward as well as sideways deceleration (lane change)
- Calculates and displays SRV36
- Simple 12 button operation via a tactile membrane pad
- Can be installed anywhere in the vehicle
- Self-aligning by identifying its orientation at the beginning of each test
- Lightweight (< 500grms) and compact (90 x 200 x 35mm)
- LCD display
- Adjustable display control
- Automatic start function
- Automatic shut-off after 15 minutes to preserve battery life (10 hours of running time)
- Built-in integrity check
- Built-in real time clock
- Calibration is internationally traceable through NATA
- Calibration interval 12 months
- 12 months warranty
- Internet support hotline for diagnostics
- Comprehensive after-sales service and assistance
- EIA RS-232c
- Bluetooth interface
- USB interface
- Memory storage: Ninety Nine Tests (99 Tests)
- PC download capability and graph

6. CALIBRATION PROCEDURE

The Mini Plus2 must be re-calibrated every one year. The reason for this is to maintain creditability in tests and acceptance of data according to international standards. Each time the unit is turned on; the LCD will show the date that the re-calibration is due. At the time the unit is due for re-calibration, the LCD screen will show: "Calibration Due! Please contact your vendor for re-calibration", and further testing will be disabled. There are two ways of calibrating the Brake Meter - either return the AutoStop Mini Plus2 to your local distributor or by returning the Brake Meter to Auto Test Products (See Section 6.1).

6.1 Return of AutoStop Mini Plus2 for Calibration

The Brake Meter should be packaged in the original shipping container. However, where this container is not available, remember that you are shipping an electronic instrument. Bubble pack or foam should surround the Brake Tester and should be inserted into a sturdy cardboard box.

To return for recalibration, pack your device securely and include all the details such as:

- Business name and ABN
- Shipping address
- Phone number
- Email address

Ship the device to:

Service Department

Autotest Products Pty Ltd

69 Parsons Street,

Kensington, VIC 3031

Phone no: (+61) 3 8840 3016

7. TROUBLESHOOTING

Problem	Potential Cause and Action Necessary
Mini Plus2 will not turn on	Internal electronics have failed - return unit for servicing.
Mini Plus2 not recording keypad input	Keypad damaged- return unit for servicing.
Mini Plus2 turns itself off during use	Battery flat-battery needs to be recharged.
Mini Plus2 won't run tests	Calibration due - return unit for calibration.
Mini Plus2 displays Clock failed	The in-built clock has failed. It might be an electronic fault, or the unit needs to be recalibrated.
Mini Plus2 displays Error	The test was not carried out correctly; repeat the test.

8. WARRANTY

When you purchase an AutoTest Product you are required to complete warranty registration form, and return to AutoTest Products Pty Ltd within 10 days of purchase of the product. AutoTest Products or any Authorised AutoTest Service Centre warrants this product against defects in material and workmanship for a period of 12 months from the original date of purchase. This warranty applies only to products and components supplied by AutoTest Products which can be identified by the trade name or logo affixed to them or by other documents. AutoTest Products does not warrant any products not supplied by AutoTest Products.

Note: The use of proper paper is very important to the operation of the printer. Use of non-standard paper will jam the printer and/ or wear the print head. Use of non- standard paper will void the warranty. Paper and printer ribbon cartridge are available from Autotest Products.

During the warranty period, AutoTest Products or any Authorised Service Centre will repair (or at its option replace), any defective component(s) without charge for parts or labour, provided the product is freight prepaid, to an authorised AutoTest Service Centre. Transit insurance and return freight will be at the owner's expense.

AutoTest Products or any Authorised AutoTest Service Centre reserves the right to refuse warranty repair if accident, abuse, misuse or misapplication has damaged the product. In transit or as a result of service or modifications by other than an Authorised Service Centre, nor are any other warranties expressed or implied, including any regarding merchantability or fitness for any other particular purpose.

AutoTest Products or an Authorised Service Centre is not responsible for incidental or consequential damages resulting from the breach of any express or implied warranty, including damage to property and, to the extent permitted by law, damages for personal injury.

(Express exclusions from warranty) Unless otherwise specified, this warranty does not cover:

1. Modified, abused, neglected, accidentally damaged or excessively worn products, or products that have become damaged or defective as a result of improper use.
2. Repairs attempted or made by other than our regional repair centre or authorised warranty service centre.
3. Conditions or malfunctions caused by the reasonable effects of fair wear and tear or the mal function of normally wearing parts, which include but are not limited to: Batteries, plugs and leads.
4. Consumable items, such as batteries (beyond 3 months from date of purchase).
5. AutoTest products that are not distributed through AutoTest's authorised distributors and resellers.

(Warranty non-transferrable) This warranty is not transferrable beyond the original purchaser.

Warranty is subject to AutoTest Products Standard Terms & Conditions published widely. For more detailed warranty clause, please visit our website www.autotest.net.au/terms-and-conditions/.

9. NOTES

AUTOTEST Products Pty Ltd

69 Parsons St Kensington VIC 3031 Australia
Phone: (+61 3) 8840 3000
Service: (+61 3) 8840 3016   service@autotest.net.au
Sales:(+61 3) 8840 3017   sales@autotest.net.au

www.autotest.net.au