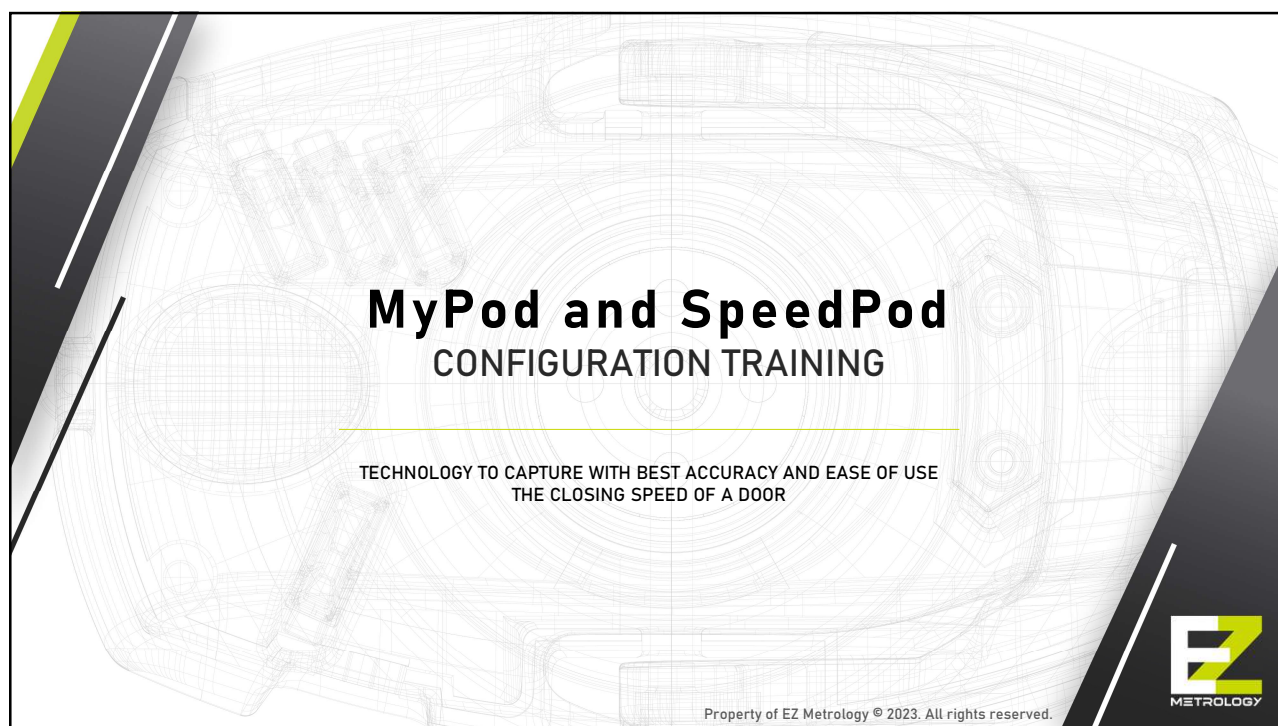




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Presentation STSP002, Slide 2

2

1. Introduction

Presentation STSP002, Slide 3

3

1. INTRODUCTION 1.1 NEW GENERATION

With thousands of satisfied users, EZMetrology has consolidated all feedback, updated and developed the next generation gauge.

SpeedPod has innovation on many levels :

- Improved Accuracy
- Reduced Measurement Time
- Simplified Operation
- Reduced Size and Weight (250gr)
- Connectivity



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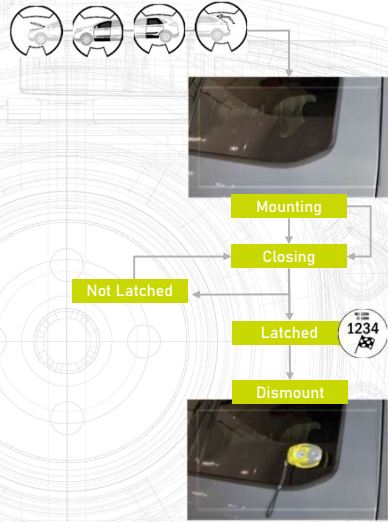
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1. INTRODUCTION

1.2 EASY ON THE OPERATOR

- **Single operation Suction cup**
The suction cup holding mechanism can hold the device firmly on the closure in a single hand motion.
- **Bright Led Status and Go-NoGo**
A number of multicolor LEDs provide immediate feedback on the status of the measurement; simple green or red as final conclusion.
- **Integrated Protective Cover**
To protect the device from accidental drop, it comes with an impact absorbing protective cover.
- **High Contrast Ink Screen**
For clear reading of multi-functional information
- **Scratch Proof Glass**
The screen is protected by a scratch proof domed glass for strength and clarity.
- **Lanyard Connection**
Keep the device at hand and protect from an accidental drop.




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1. INTRODUCTION

1.3 SENSORS

Includes the latest generation of ultra-sensitive Inertial Sensors for optimal detection and sensing of movements.

- **3 Axis Gyroscope**
Senses the angular rotation with Multiple Sensitivities for optimal resolution and accuracy.
 - Around any axis
 - In any position*
 - At any Radius
- **3 Axis Low Range Accelerometer**
Senses micro de- and accelerations in the movement
- **3 Axis High Range Accelerometer**
Senses high impact accelerations




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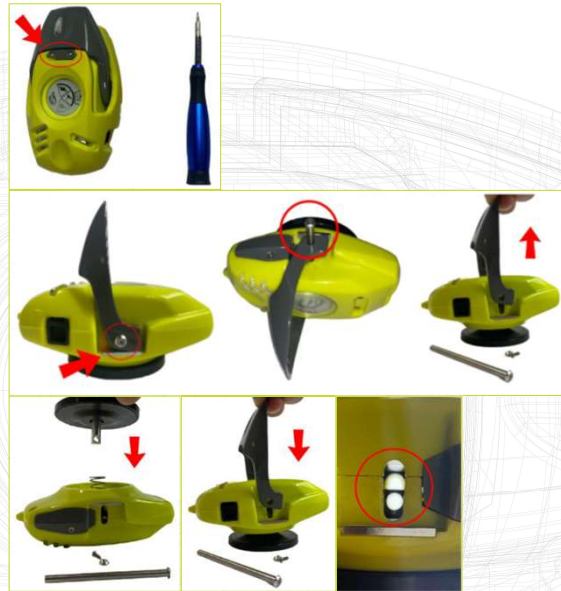
6

1. INTRODUCTION

1.4 USER SERVICEABLE

Major parts of the device are user serviceable from a repair kit.

- **Protective Cover**
Pull cover down from under lever, continue past suction cup till cover clears body.
Unscrew grey nut screws (Torx 10) to release cover.
- **Suction Cup**
Use two screw drivers (Torx 6) to unscrew center pin.
Screw and washer will come off one side. Pull pin to release Lever Arm and Suction Cup.
- **Lever Arm**
Same operation as Suction Cup. Reverse the process to reassemble. Pay attention to line up Lever and Suction Cup pin holes while inserting pin. Don't forget the spring!



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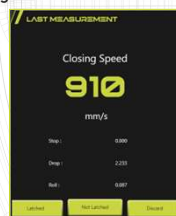
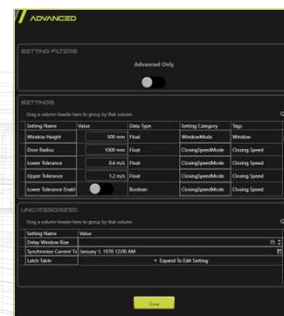
7

1. INTRODUCTION

1.5 MYPOD SOFTWARE

Pod devices need a way to configure settings and modes. This is where MyPod software comes in.

- **MyPod allows:**
 - Settings adjustment
 - Measurement profile management
 - Latched/Not-Latched training
 - Advanced settings and firmware management
 - Measurement testing
- **MyPod UI:**
 - Resizable panels for customizable UI
 - Ribbon Bar for grouped actions
 - Profile based settings adjustment
 - Settings saved to device instantly



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2. MyPod Overview

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2. MYPOD OVERVIEW

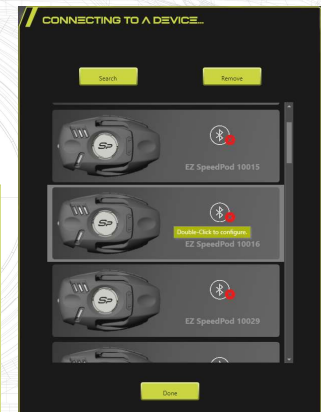
2.1 CONNECTING A DEVICE

The software can be installed and run on a Windows computer. Also comes installed on each SpeedPod device. Can be run by plugging in the device to a Windows computer, with the included USB-C cable, and opening the MyPod shortcut.



To connect a SpeedPod:

- Click the Connect button to open the connection window
- Find the device number in list and double click
- Click Windows Add Device popup and accept next popup
- Connected device will show green
- Current Device panel will populate



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2. MYPOD OVERVIEW

2.2 UI, PANELS, AND VIEW

- Customizable UI**
 Only show the information you want to see and put to the side what you don't. Each of the 4 panels can be resized, swapped, or docked.
- View Ribbon Bar Toggles**
 Each panel can be immediately hidden with the view toggles. The same can be done by clicking the pin icon in the top right of each panel. They will be docked on left side of the screen, pop out on click or mouseover.
- Default Views**
 Sample and Config View buttons set view to the default for taking measurements or configuring settings.
- Contained Processes**
 Sufficiently involved processes like latch settings and firmware updates have their own process windows to focus and direct user attention.




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2. MYPOD OVERVIEW

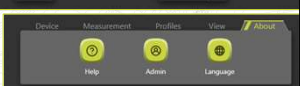
2.3 RIBBON BAR

Common actions are centralized on a ribbon bar at the top of the screen.

- Device**
 Contains actions related to connections, information, device specific settings, and commands
- Measurement**
 Additional modes available when taking measurements with MyPod
- Profiles**
 Shows actions related to making measurement profiles, this includes; profile selection, commands, importing and exporting, and latch sampling
- View**
 These actions change the view of the software UI
- About**
 About includes actions regarding the software itself. The Help button opens the manual if it is available, Admin shows software version and licensing information, and Language allows switching an available language







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3. Connection and Settings

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3. CONNECTION AND SETTINGS

3.1 CONNECT A SPEEDPOD



If a SpeedPod device is not already connected, do so now to start setting up the device and measurement profiles.

A previously connected device can be reconnected by double-clicking the picture in the Current Device panel.

In the Profile Selection panel, Double click the profile to activate or select a profile and click the Activate button.

The activated profile will now be active on the device and the software. It is ready to measure or edit its settings.



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3. CONNECTION AND SETTINGS

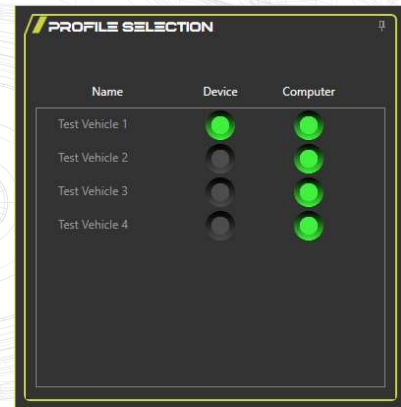
3.2 CREATE NEW PROFILE



To create a new profile, click the Create New button under the Profiles tab.

The new profile will appear in the Profile Selection panel and will be named "New Profile."

A selected profile can be activated, copied, or reset to defaults. It can also be removed from the device and list or exported to file for backup or sharing.



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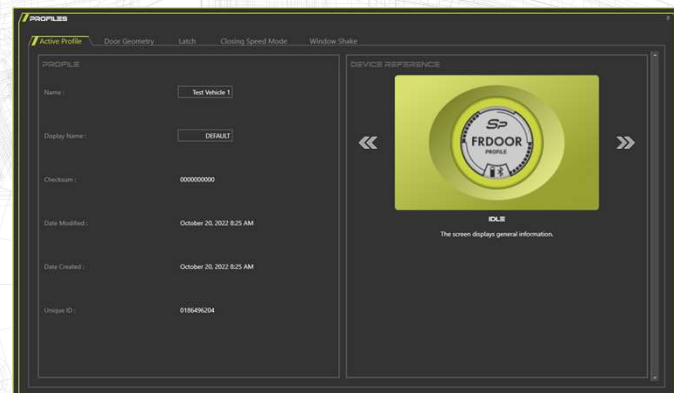
15

3. CONNECTION AND SETTINGS

3.3 EDIT PROFILE INFORMATION

Change the profile name under the Active Profile tab in the Profiles panel:

- **Name**
Proper name of the profile.
- **Display Name**
Short character name that will appear on SpeedPod (example: FRDOOR)
Note: 6 char limit
- **Checksum**
Software calculated number to identify profile.
- **Date Modified/Created**
For reference
- **Unique ID**
Unique number per individual profile



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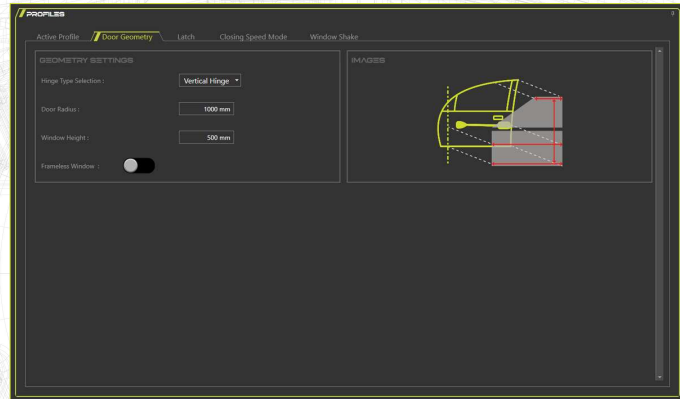
16

3. CONNECTION AND SETTINGS

3.4 DOOR GEOMETRY

Input the door geometry for accurate results in measuring:

- **Hinge Type Selection**
Vertical Hinge, Non-vertical Hinge, etc.
- **Door Radius**
Estimated or measured middle or latch radius of the door.
- **Window Height**
Height of window from sill to top. (Only necessary for Window Shake mode)
- **Frameless Window**
Enable if window on measured door is frameless.



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4. Closing Speed Module

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2. CLOSING SPEED MODE

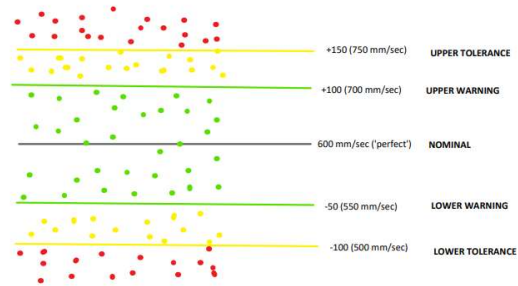
4.1 SETTINGS AND TOLERANCES

Closing Speed Mode enables the SpeedPod to measure the closing speed of the door.

- **Angle for Speed**
Angle before closed position where the speed is measured
- **Maximum Samples**
Limit to number of measurements per door
- **Tolerances**
Measurement status thresholds for good, bad, or warning
- **Go/NoGo**
Pass or Fail can use upper and/or lower tolerances, warnings are only reference



Tolerances and Warnings



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2. CLOSING SPEED MODE

4.2 GAP MODE

Gap Mode can enable a more accurate final measurement of a door. More individual measurements may be necessary and will take more time but can be more accurate.

- **Gap Tolerance**
The maximum allowed difference between Highest Not Latched and Lowest Latched
- **Lower Tolerance = More Time**
A lower tolerance (<75mm/s) can take more total closes to finish a measurement
- **Uncertainty is half gap difference**



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5. Latch Profiles

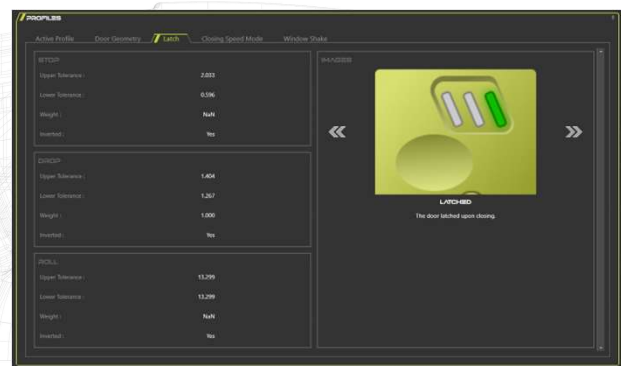
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21

5. LATCH PROFILES 5.1 WHAT IS A LATCH PROFILE?

A latch profile is a set of values to define whether a door closed in the fully latched position. These values look at measurements taken during the latching event.

- **Stop**
Door shake in latching axis
- **Drop**
Window drop and rise
- **Roll**
Rotation around horizontal door axis
- **Latch Panel**
Shows latch settings enabled for the profile



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6. Window Shake Module

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6. WINDOW SHAKE MODULE

6.1 SETTINGS

Window Shake Module measures the initial vibration of a frameless window caught by the seal.

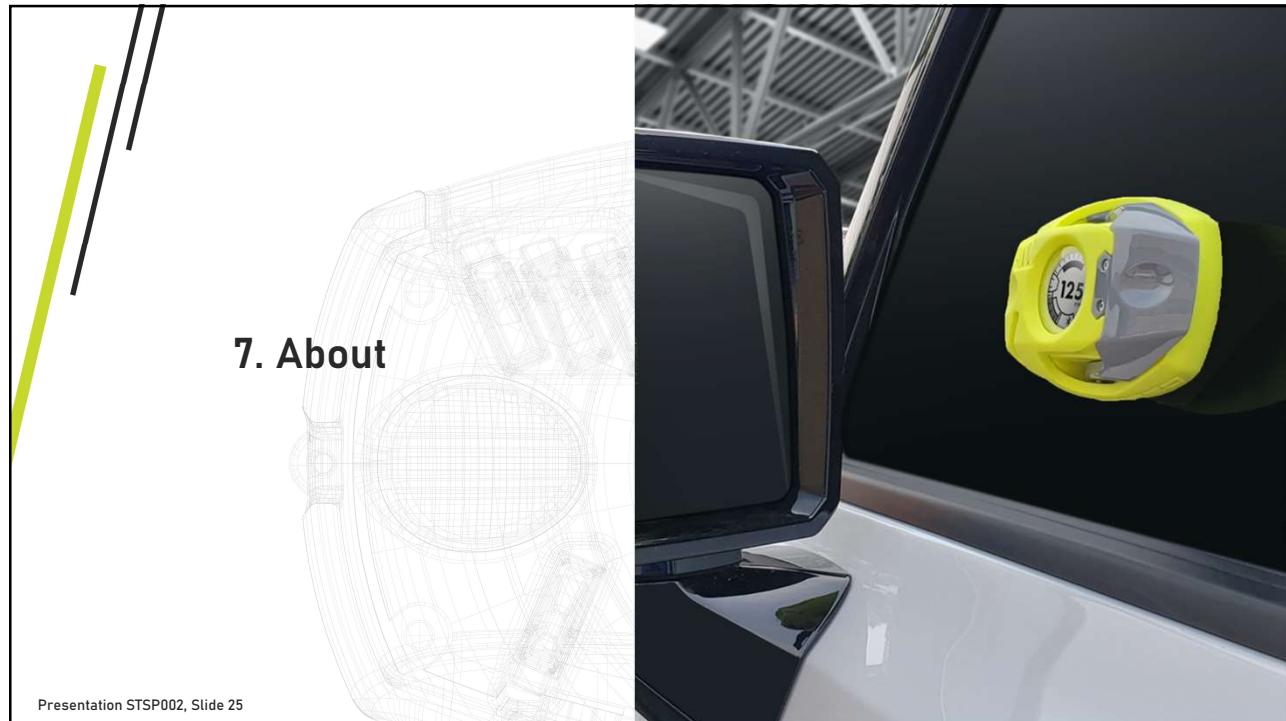
- **Maximum Samples**
Max measurements before verdict
- **Standard Deviation of measurement**
Math stuff goes here
- **Measurement Detail**
Shows *mm* displacement and speed
- **Shake Table**
Acceptable shake nominal at standard speeds. Creates a best fit line.



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7. ABOUT

7.1 HELP, ADMIN, LANGUAGE

- **Help**
Opens the MyPod and SpeedPod manual if available
- **Admin**
Shows information on version and licensing
- **Language**
Selection of supported languages.
More languages added in later versions.

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