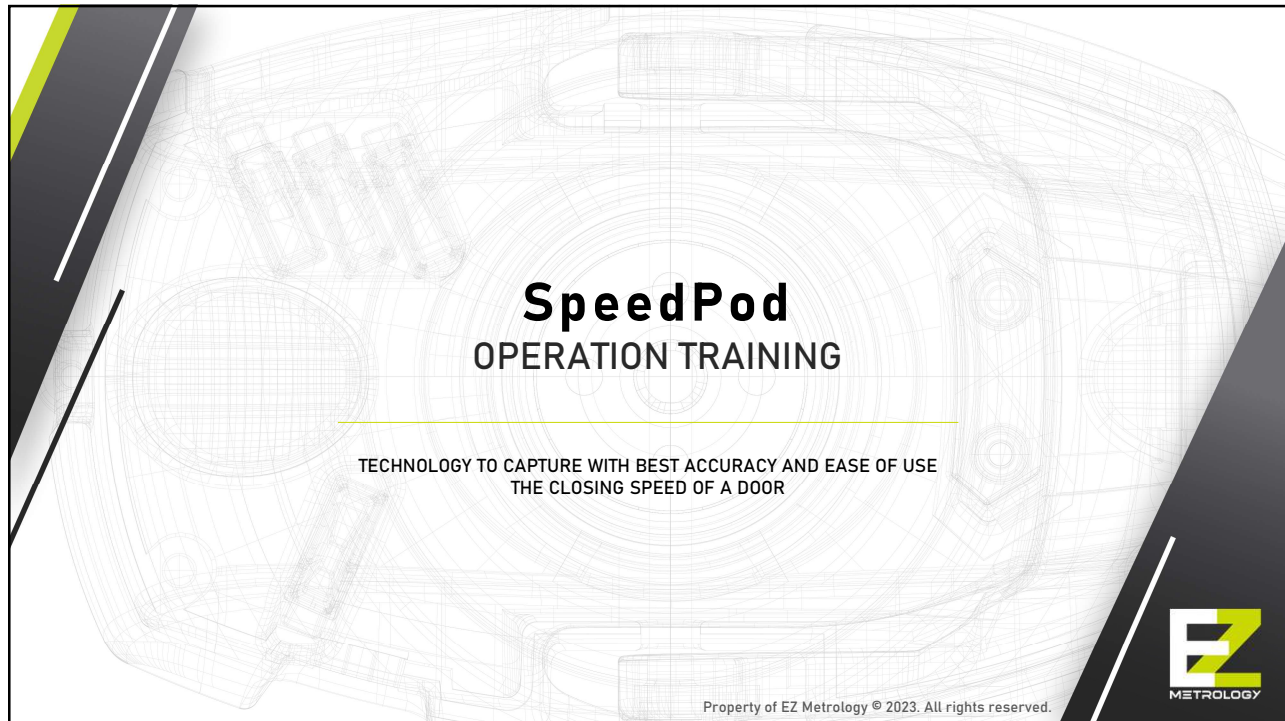
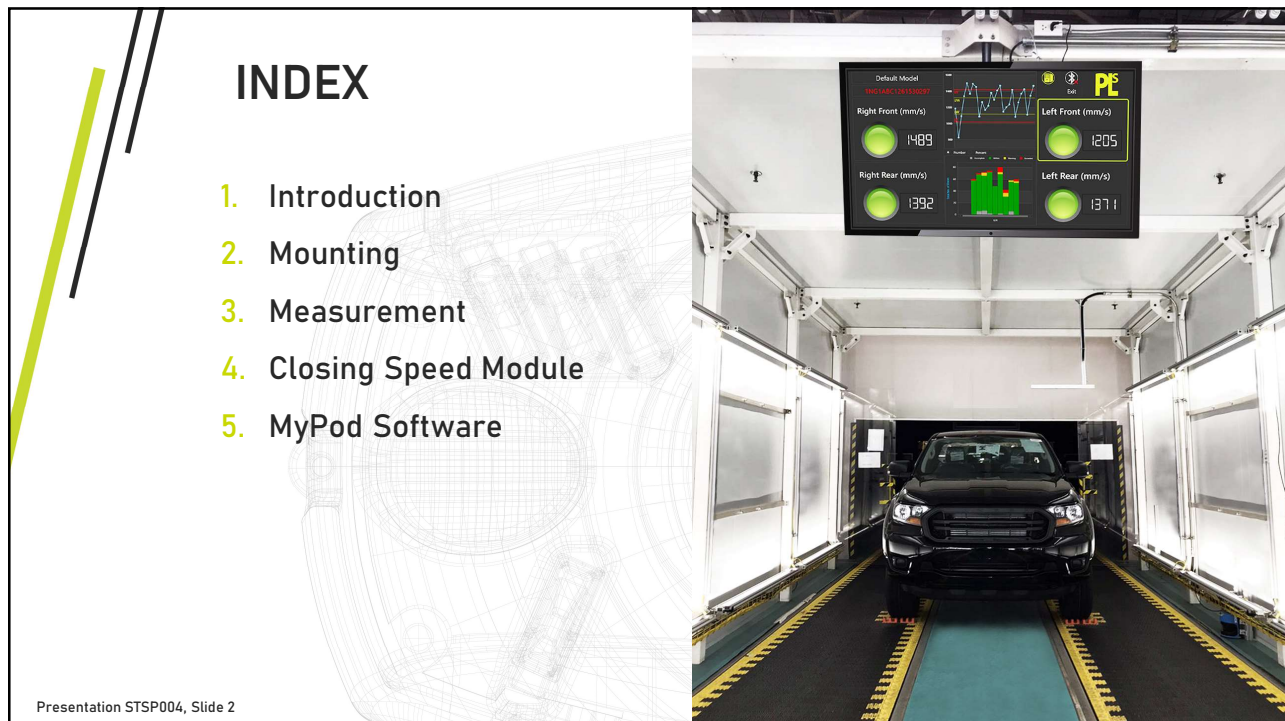




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# 1. Introduction

Presentation STSP004, Slide 3



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## 1. INTRODUCTION

### 1.1 NEW GENERATION

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

SpeedPod stands for innovation on many levels :

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



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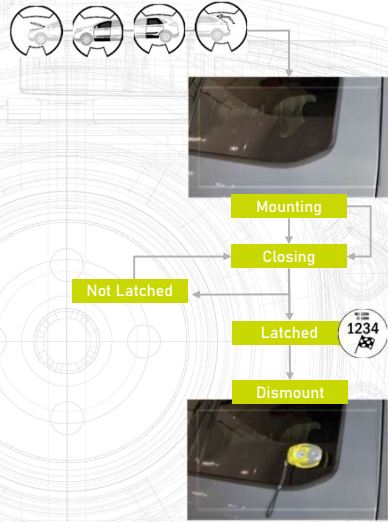
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## 1. INTRODUCTION

### 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 will provide immediate feedback on the status of the measurement with a simple green 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 best 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 form the accidental drop.




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## 1. INTRODUCTION

### 1.3 SENSORS

Relying on the latest generation of ultra sensitive Inertial Sensors for optimal detection and sensing of movements.

- **3 Axis Gyroscope**  
Sensing 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**  
Sensing micro de- and accelerations in the movement
- **3 Axis High Range Accelerometer**  
Sensing high impact accelerations



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## 1. INTRODUCTION

### 1.4 FIELD EXAMPLE

- **Mounting**  
Mounting instructions to place the gauge above the handle
- **3 Attempts**  
Time allow operator to take maximum of 3 attempts (~20sec)
- **Conclusion**  
If the data confirms an in-tolerance reading, measurement complete
- **Dismount**  
Remove SpeedPod




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## 1. INTRODUCTION

### 1.5 CHARGING

- **Docking Station**  
To charge the SpeedPod, place the device onto the docking station, The docking station LEDs and the bottom device LED will turn green when the device is charging.  
*Note: the bottom device LED can either pulse green or be on completely.*
- **USB-C Cable**  
The SpeedPod can also be charged via USB-C. The same behavior for the bottom LED will be observed if charging via USB.  
*Note: if you plug in the device via USB to a computer, the device will be recognized by the PC, and will reboot.*





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## 2. Mounting

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## 2. MOUNTING

### 2.1 PLACEMENT

- Mounting Location**  
 Device can be mounted close to the hem edge of the measured door.  
 If using the Window Shake Module (frameless windows), mount device in upper half of the window height.  
  
*Note: Even if you mount away from the hem edge, the device will still calculate using the given Door Radius in the profile.*
- Orientation**  
 Device can be mounted in any orientation. We have found lever left or lever right to be the most comfortable.



☒ Speed Measurement

☐ Window Vibration



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## 2. MOUNTING

### 2.2 ATTACH DEVICE

- Thumb Impressions**  
 The two designated impressions on each side of the device ensure that the suction cup is making full contact to the mounting surface.
- Close the lever to mount**  
 Closing the gray lever will activate the suction cup. At this point, you may remove hands from the device.
- Lift the lever to remove**  
 Simply lift the lever and hold onto the device to remove from the door.





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## 3. Measurement



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## 3. MEASUREMENT

### 3.1 MOUNTED/READY

- Double Yellow Flash**  
 After mounting the device, the system will let the user know when it is ready to proceed with a measurement. This is indicated by a double-yellow LED flash on the bottom LED.

At any point along the measurement process (full open or closed) the double-yellow blink will be the operators sign to proceed with a measurement.

If you attempt to start the measurement procedure before the go-ahead, the system will not proceed correctly.




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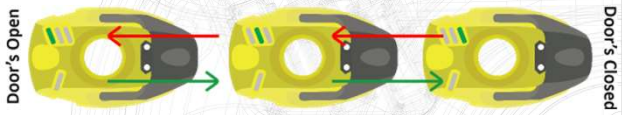
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## 3. MEASUREMENT

### 3.2 MEASUREMENT PROCEDURE

- Open the door**  
 After the yellow blink, proceed to open door. The top green LEDs will progress.



- Wait for go-ahead**  
 At full open, the operator will wait to close the door until after the double-yellow blink.
- Close the door**  
 Proceed to close the door.



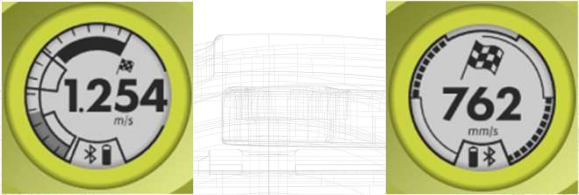

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### 3. MEASUREMENT

#### 3.3 LED DECODING



|                                                                                                                                                                              |                                                                                                                                                        |                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Error States:</b><br><b>Three Light Indicator (3LI) All Green</b><br><br>Device confused | <b>Latch Status:</b><br><b>3LI Near Green</b><br><br>Latched detected | <b>Final Status:</b><br><b>Single LED Green</b><br><br>Measurement within tolerance |
| <b>3LI Near Light Yellow/Green</b><br><br>Detected not on door:<br>device dismounted        | <b>3LI Near Red</b><br><br>Not-Latched detected                       | <b>Single LED Red</b><br><br>Measurement out of tolerance                           |

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### 4. Closing Speed Module



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## 2. CLOSING SPEED MODE

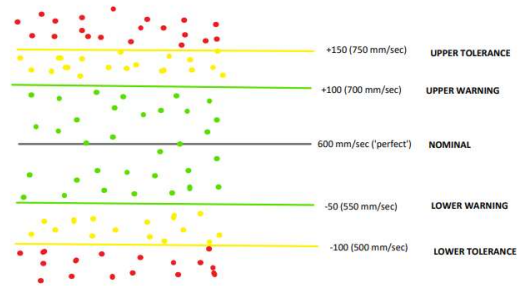
### 4.1 SETTINGS AND TOLERANCES

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. MyPod Software

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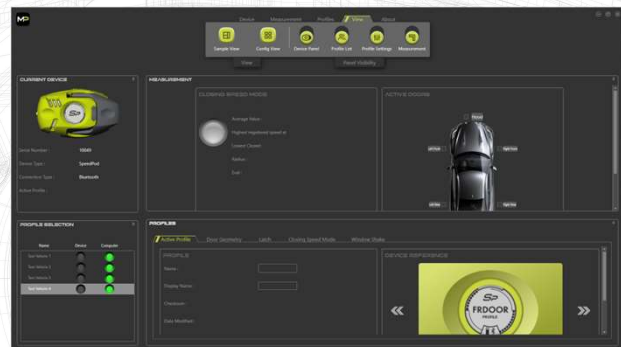
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## 5. MYPOD SOFTWARE

### 5.1 FEATURES

Access the configuration of your SpeedPod via simple application

- Create and manage door profiles
- Define Target Values and Nominal
- Active different measurement Modes
- Set up Network Configuration
- Firmware Upgrades



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