



**PROFILER
TECH**

MMS7000

QUICKSTART GUIDE

GETTING STARTED WITH
YOUR MMS7000





PROFILER TECH

MMS7000 Profiler

Getting Started

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Applies To:	
EVOsoft Version:	v17.6.14.1
Profiler7000 Version:	v17.6.14.1

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Basic Operation & Initial Setup

Charge your MMS7000


Before you start, ensure your MMS7000 is charged by connecting the supplied USB communication cable and then inserting the AC power adaptor plug into charging socket in the bottom left.

NOTE:

- The device will **only** charge if the AC power plug is connected: it will not charge over USB only
- It will take 2-3 hours to fully charge a completely flat battery




Power on your device

Press and release  and wait for the MMS7000 to power up and

for the Profiler7000 app to start. If the Profiler7000 app does not start automatically, you can start it yourself by double-tapping on this icon that appears on the Desktop.



The Profiler7000 app Home screen



The screenshot shows the app's home screen with three main sections: a green top section with a white hammer icon, an orange middle section with a white folder icon, and a blue bottom section with a white wrench icon. A red 'X' icon is in the top right corner. At the bottom left, a battery icon shows '100%' and at the bottom right, a storage icon shows '78%'.

Annotations with arrows:

- Tap here to take a measurement (points to the hammer icon)
- Tap here to review existing measurements (points to the folder icon)
- Tap here to set up your device (points to the wrench icon)
- Current MMS7000 Battery Level (points to the 100% battery icon)
- Current Available Storage Space (points to the 78% storage icon)
- Tap here to close the Profiler7000 app (points to the red 'X' icon)

Using the touchscreen


To use the MMS7000 touchscreen, either tap firmly with your finger or use the black plastic stylus stored in the top right of the device:

NOTE: Do **not** use anything with a sharp tip on the touchscreen, such as a pen or a metal tool! This will damage the screen and is not covered under your warranty.

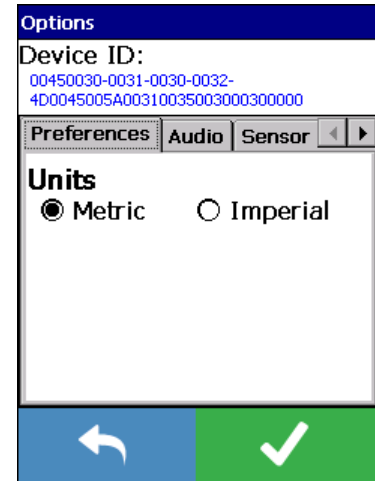


Set up device options



Tap  to open the **Options** screen and view the following settings:

Tab	Description
Preferences	Lets you switch between metric and Imperial measurement units
Audio	Allows you to specify if you want an audible beep every time you tap the screen.
Sensor	Lets you specify the details of the sensor you are using, including its precise size.
System	Displays various hardware and software version and serial numbers.

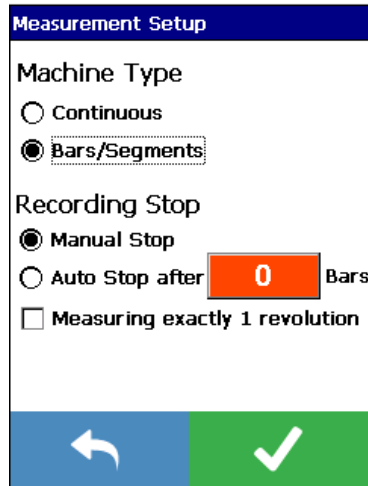


When you have finished setting options, tap  to save your changes and return to the **Home** screen.

You are now ready to take your first measurement!

Taking a Measurement

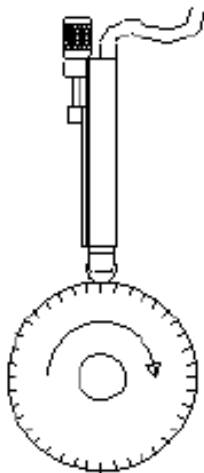
1. Connect your Profiler Sensor to the middle connector on the top of the MMS7000 device:



2. Tap  to display the **Measurement Setup** screen:

3. Specify the details of the machine you are about to measure. For this initial recording:

Option	Description
Machine Type	For a commutator, select "Bars/Segment" For a slip ring, select "Continuous"
Recording Stop	Select "Manual Stop"
Measuring exactly 1 revolution	Leave this unchecked




Direction of Rotation

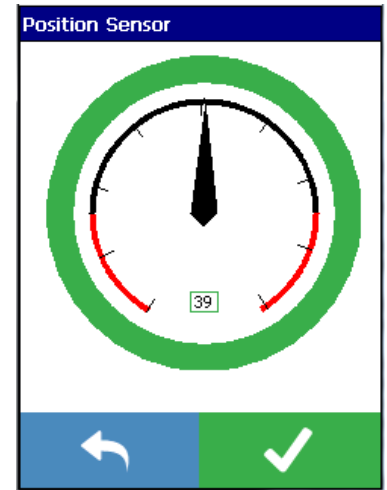
4. Remove the sensor from its protective metal sleeve and position it squarely in a brush holder on the machine to be measured. For increased accuracy, ensure it is oriented correctly, as shown on the left.


5. Since the sensor is usually smaller than the brush assembly, you will need to insert packing material at the front and back of the sensor to take up the available space in the brush holder. This can be either the spacer kit supplied in the kits (as shown to the right), scrap plastic or Teflon etc offcuts, or any other suitably hard material you have available. Once you have taken up all the spare space in the holder, secure the sensor in position by lightly tightening the clamping knob.

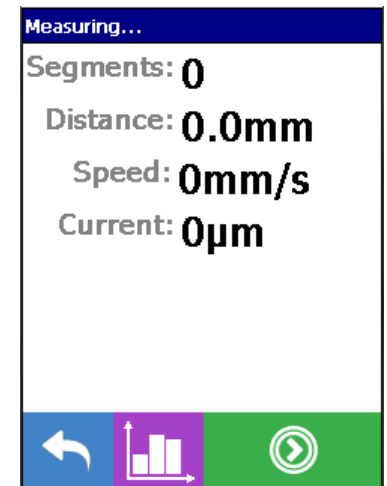
DO NOT clamp the sensor with a mechanical clamp: this may cause crush damage to the internal electronics.




6. On the MMS7000, tap  to continue to the **Position Sensor** screen:

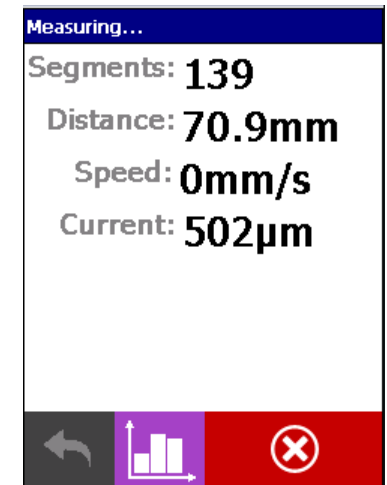


7. Using the dial gauge on the **Position Sensor** screen, carefully adjust the position of the sensor in the brush holder so that the dial gauge shows as close to 0 as practical, then tighten the clamping knob and tap  to continue to the **Measuring** screen:



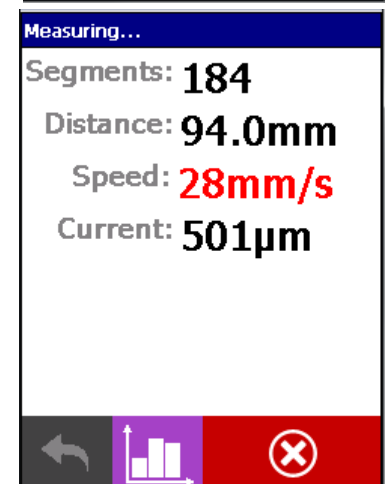
8. Tap  to start recording and then slowly rotate the machine being measured. As you rotate the machine, the fields on the **Measuring...** screen will update:


Field	Description
Segments	The number of samples the sensor has taken
Distance	The distance the sensor wheel has travelled so far
Speed	The speed the sensor wheel is currently travelling
Current	The current displacement measured by the sensor

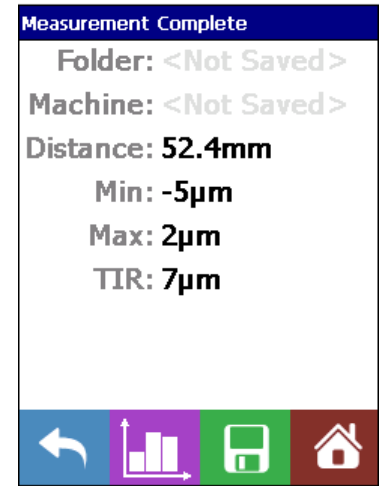


9. If the Speed value is displayed in red, this indicates you are rotating the machine so quickly that the sensor is acquiring profile data faster than the MMS7000 can update the display.





If this happens, simply slow down the rotation and continue with your measurement – the display will quickly catch up and no profile data will be lost.




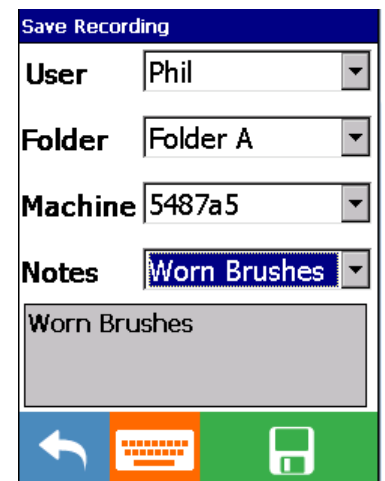
10. Once you have finished measuring, tap  to stop the recording. The details of the measurement will then be displayed on the **Measurement Complete** screen:




11. You can now select one of the following actions:

Button	Description
	Go back to the Position Sensor screen to take the measurement again.
	View a graph of the recording that was just taken. You can pan and zoom on this recording using the Up, Down, Left, and Right keys on the keypad.
	Save the recording to the device's memory card so you can import it into EVOsoft desktop software later for analysis and reporting
	Go back to the Home Screen without saving the recording.

12. If you are happy with the measurement, tap  to continue to the **Save Recording** Screen:



13. Enter the relevant details of the recording and then tap  again to save it to the memory card.

Congratulations! – you have just measured your first machine with your MMS7000!