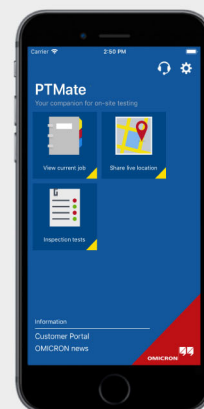




PTMate

Getting Started



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OMICRON translates this manual from the source language English into a number of other languages. Any translation of this manual is done for local requirements, and in the event of a dispute between the English and a non-English version, the English version of this manual shall govern.

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About this manual

This Getting Started provides information on how to set up and operate the *PTMate app* for *Primary Test Manager*.

- For detailed safety instructions and information on the test systems operated with *Primary Test Manager*, refer to the respective user documentation.

Safety symbols used

In this manual, the following symbols indicate safety instructions for avoiding hazards.



WARNING

Death or severe injury can occur if the appropriate safety instructions are not observed.

1 Introduction

1.1 About PTMate

PTMate is a simple, fast and easy-to-use companion for *Primary Test Manager*.

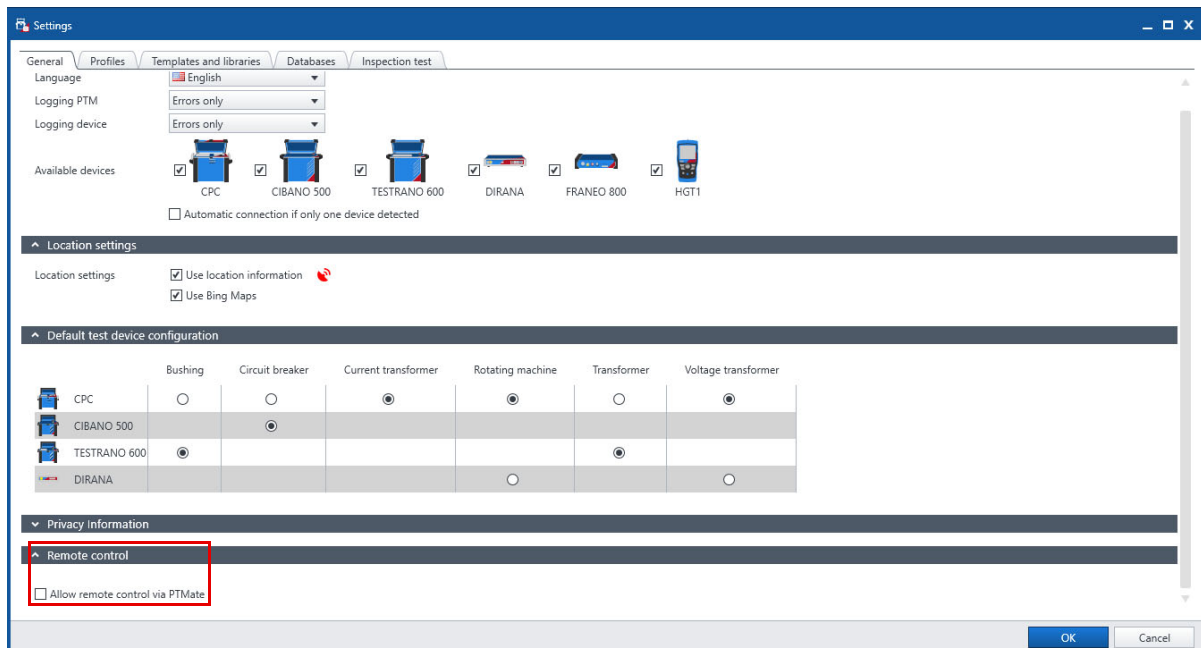
- ▶ Send images as attachments, either coming directly from your mobile phone's camera or from the photo gallery.
- ▶ Enhance your location data with GPS coordinates.
- ▶ Inspect the wiring diagram of the selected test remotely on your phone's display.
- ▶ Enjoy a unique feature set for *FRANEO 800* tests: Remotely start and stop individual measurements, clear incorrect results and consult results graph.

1.2 Connecting PTMate to Primary Test Manager

1.2.1 Configuring Primary Test Manager

Follow the steps below to set up *Primary Test Manager* for the connection to *PTMate*.

1. Start *Primary Test Manager*.
2. Go to **Settings > General > Remote control**
3. Select the **Allow remote control via PTMate** check box:



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4. If your computer is already connected to a Wi-Fi network, continue with 4. "If your computer is already connected to a Wi-Fi network, continue with. If your computer is not connected to a Wi-Fi network, continue with "Computer without connection to Wi-Fi".

If your computer is not connected to a Wi-Fi network, continue with "Computer without connection to Wi-Fi".


Computer with connection to Wi-Fi

Connection details

Server IPs	192.168.32.153 [OEBB]
Port	12443
<input type="button" value="Start Wi-Fi access point"/>	
<input checked="" type="checkbox"/> Automatically start the Wi-Fi access point if no existing active Wi-Fi connection	
Wi-Fi access point	Not started
HTTP API	Online




Primary Test Manager automatically detects the connected network and your current IP is displayed in the **Server IPs** info box. If *Primary Test Manager* is connected to an existing WLAN network or has created a Wi-Fi access point, a QR code is displayed.

The bottom bar in *Primary Test Manager* displays a phone symbol  when the remote access is enabled.

Computer without connection to Wi-Fi



Connection details

SSID	Omicron_eXUFC
Password	E75BCA1B
Server IPs	192.168.137.1 [Wi-Fi access point]
Port	12443
<input type="button" value="Stop Wi-Fi access point"/>	
<input checked="" type="checkbox"/> Automatically start the Wi-Fi access point if no existing active Wi-Fi connection	
Wi-Fi access point	Started
HTTP API	Online



- Click the **Start Wi-Fi access point** button. *Primary Test Manager* will create a new WLAN network with the displayed SSID. Each *Primary Test Manager* instance has its own SSID-password combination.
- If the **Start Wi-Fi access point** button is disabled, run *Primary Test Manager* as Admin and click the **Reset configuration** button.


If *Primary Test Manager* is connected to an existing WLAN network or has created a Wi-Fi access point, a QR code is displayed.

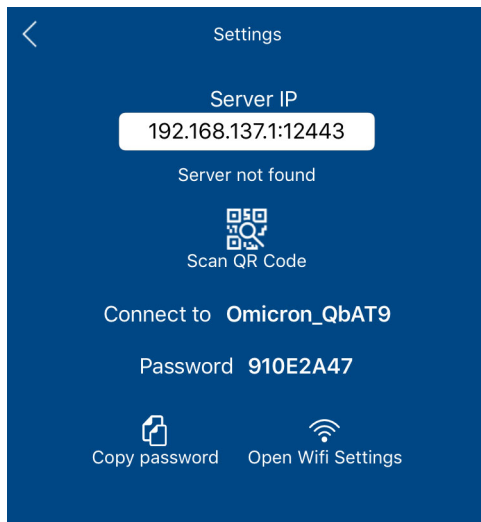
The bottom bar in *Primary Test Manager* displays a Wi-Fi symbol  when the Wi-Fi access point is enabled, and a phone symbol  when the remote access is enabled. The Wi-Fi access point stays active until you press **Stop Wi-Fi access point** or exit *Primary Test Manager*.

Note: If the computer is not connected to a WLAN network and **Remote control** is enabled, *Primary Test Manager* will automatically attempt to set up a Wi-Fi access point if you checked the corresponding check box.

1.2.2 Configuring PTMate on the smartphone



PTMate is available for iOS (in the App Store) and for Android (in the Google Play Store).

1. Download and start *PTMate* and go to **Settings**.
2. Press the **Scan QR Code** button  and scan the QR code displayed in the *Primary Test Manager* settings. *PTMate* will automatically configure the **Server IP** address and display the Wi-Fi network SSID information:




The app will attempt to automatically connect the phone to the Wi-Fi network.

Follow the steps below to establish a connection on either platform:

1. Tap **Copy password**  to copy the password to the clipboard.
2. Tap **Open WiFi Settings** .
3. Choose the network with the SSID displayed in *PTMate*.
4. Paste the password when prompted.

PTMate should now display **Connected** under the **Server IP** box (this may take few seconds).

Multiple smartphones or tablets can be simultaneously connected to *Primary Test Manager*. The bottom bar in *Primary Test Manager* displays the number of active remote connections: .

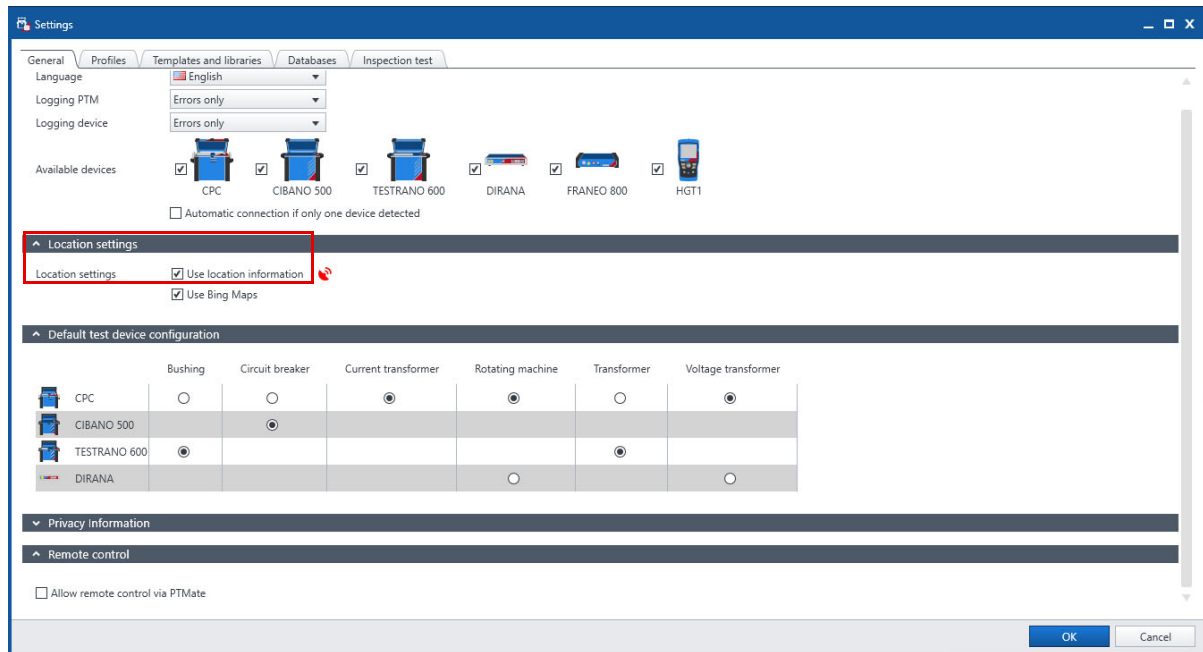
1.2.3 Live location sharing

PTMate can now be used to share live GPS location data with any computer that has integrated Bluetooth 4.0 radio which supports Bluetooth LE and is running Windows 10. This GPS data will be made available for the **Grounding Systems Tests** in *Primary Test Manager*. Follow the steps below to enable live location sharing.

1. Start *Primary Test Manager*.
2. Go to **Settings > General > Location settings**

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3. Select the **Use location information** check box:




Note: *Primary Test Manager* displays status icons in the status bar:



Waiting for GPS data from devices connected via Bluetooth



GPS data is available from a device connected via Bluetooth

Once *Primary Test Manager* is correctly configured, simply open *PTMate* on your smartphone device, tap the  button on the homescreen, and tap **Start sharing live location**. The current location will be displayed on the smartphone screen and the GPS data will be available in all **Grounding system tests**. To end the communication, simply tap **Stop sharing live location** on the smartphone.

Note: Sharing a live location never expires. *PTMate* will continue to share its location even while running in background. Stop sharing the location manually when not required anymore.

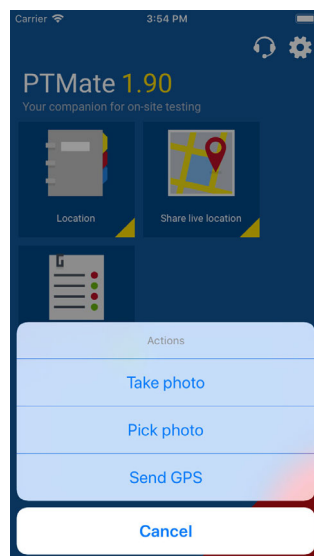
2 Working with PTMate

2.1 PTMate smartphone app

2.1.1 General features

The *PTMate* home screen automatically adjusts based on the active view in *Primary Test Manager*.

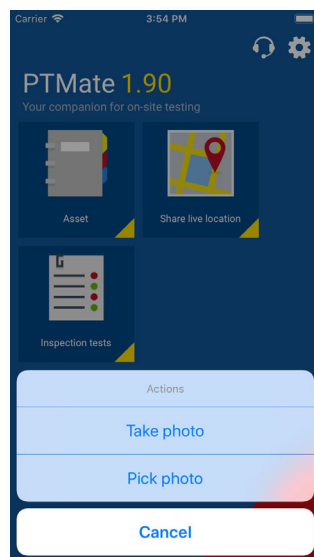
Location



Press **Location** to open the **Actions** sheet. With this menu you can:

- ▶ Add a photo you take with your camera
- ▶ Pick a photo that is already stored in your device's photo gallery.
- ▶ Send your mobile device's GPS data to *Primary Test Manager*.

Asset

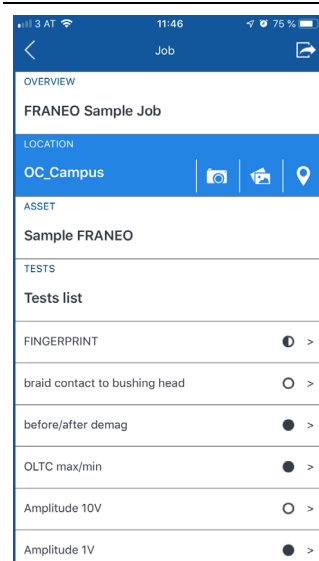


Press **Asset** to open the **Actions** sheet. With this menu you can:

- ▶ Add a photo you take with your camera
- ▶ Pick a photo that is already stored in your device's photo gallery.

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Job



The *PTMate* job view mirrors the navigation panel in *Primary Test Manager*.

You can navigate through the job and individual tests, add photos and GPS data (depending on the active view), and display the wiring diagram.

► Tap the wiring diagram to zoom and pan the image.

Each measurement indicates its execution status:

- ☐ Measurement has not been executed
- ☒ Measurement has been executed

The selected measurement is marked yellow.

► For information about working with *FRANEO 800*, refer to 2.1.2 "FRANEO 800 feature set" on page 11.

When you select a test for another supported test set, *PTMate* displays the wiring diagram.

2.1.2 FRANEO 800 feature set

For *FRANEO 800*, *PTMate* supports starting and stopping tests and displays wiring diagrams and test results.

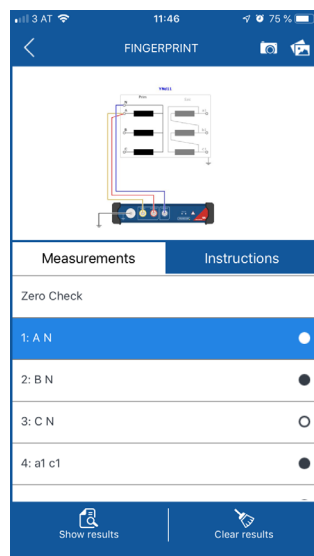
Testing with *PTMate*






WARNING

Death or severe injury can occur if the appropriate safety instructions are not observed.

- ▶ Refer to the corresponding user documentation for safety instructions and information on how to use the device correctly.
- ▶ Keep out of the high-voltage area while performing tests.



You can navigate through the test, add photos, and display the wiring diagram.

- ▶ Tap the wiring diagram to zoom and pan the image.
- ▶ Press **Start measurement** . You can stop the measurement by pressing **Stop measurement**.
- ▶ Tap **Show results**  to view the measurement results in detail, and **Clear results**  to delete them.

2.1.3 Electromagnetic Core Imperfection Detection

PTMate can be used in conjunction with *Primary Test Manager* to perform the **Electromagnetic Core Imperfection Detection Test** with the *Stator Core Measurement Upgrade Option*.

Testing with *PTMate*



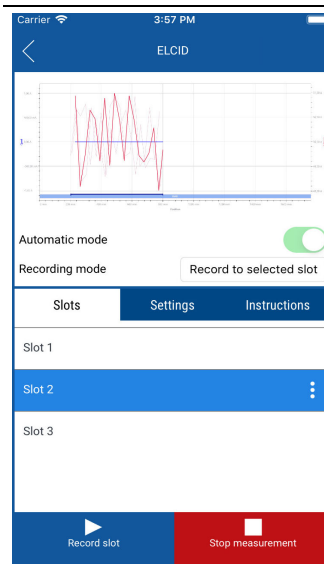
WARNING

Death or severe injury can occur if the appropriate safety instructions are not observed.

- ▶ Refer to the corresponding user documentation for safety instructions and information on how to use the device correctly.

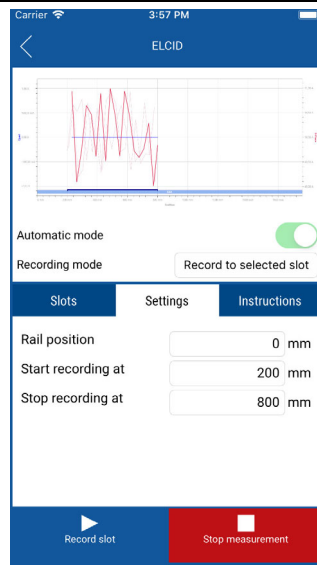
From the main **ELCID** screen you can:

- ▶ Tap the graph to zoom and pan the image
- ▶ Toggle automatic mode on or off.
- ▶ Select recording mode.
- ▶ Navigate through the test.
- ▶ Record a slot or stop the measurement.



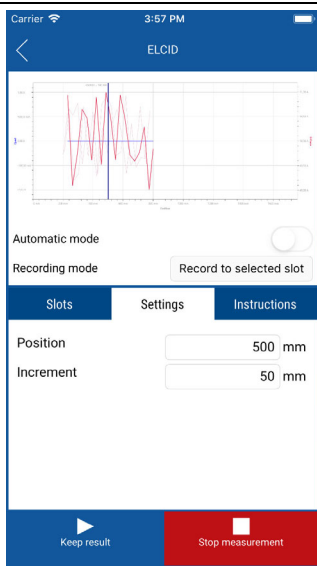
From the **Slots** tab you can:

- ▶ Select the desired slot to add a new measurement.
- ▶ Delete the slot data.



From the **Settings** tab in automatic mode you can:

- ▶ Select the rail position.
- ▶ Select the position to start recording.
- ▶ Select the position to stop recording.

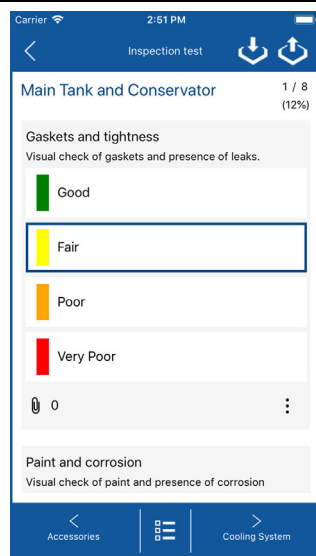


From the **Settings** tab in manual mode you can:

- ▶ Select the manual starting position.
- ▶ Select the increment at which the position is increased after each recorded measurement.

2.1.4 Inspection test

PTMate can now perform the **Inspection Test** as a mobile alternative to *Primary Test Manager*. Currently, it is only possible to create an **Inspection Test** within *Primary Test Manager*. *PTMate* is used only as an offline execution environment.



You can navigate through the test, make selections, and synchronize with *Primary Test Manager*.


Synchronize a test with *Primary Test Manager*

In order to transfer a test from *Primary Test Manager* to *PTMate*, first open the job in *Primary Test Manager*, navigate to the test (either with *Primary Test Manager* or *PTMate*) and finally tap its name in the tests list in *PTMate*. After confirming within *PTMate*, the test will be downloaded and the **Inspection Test** page will open on the smartphone.

Note: If an older version of the test exists in *Primary Test Manager* than is stored locally in the smartphone app, the user will be asked if they wish to overwrite the newer version with the older data.

Once the test has been conducted within *PTMate*, the user can upload local changes to *Primary Test Manager* by tapping the upload button found within the test interface in *PTMate*. The correct test will be automatically selected in *Primary Test Manager* if it exists in the current list of tests inside the active job.

Managing offline tests in PTMate

The test management feature can be reached by pressing **Inspection Tests**  on the *PTMate* home screen. The tests are grouped by type of asset and sorted in descending order by last modified date. Each test can be individually deleted, edited or sent to *Primary Test Manager*.

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