PosiTector® SmartLink

with PosiTector *SPG* probes

Instruction Manual v. 1.0

DeFelsko®

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Introduction

PosiTector Surface Profile Gage (SPG) probes measure the peak-to-valley height of the surface profile of abrasive blast cleaned surfaces. This instruction manual specifically covers use with PosiTector *SmartLink*.

The PosiTector *SmartLink* and free mobile app allow you to wirelessly connect a wide selection of PosiTector probes to your smart device. Take full advantage of your device's keyboard, microphone, camera, internet data connection, etc. to simplify and enhance your measurement inspection process.

The PosiTector *SmartLink* measurement solution consists of a PosiTector App, PosiTector *SmartLink* device and compatible PosiTector probe.

In addition to the PosiTector *SPG*, compatible probes include the PosiTector *RTR-H (replica tape reader)*, *6000 (coating thickness)* and *DPM (environmental conditions)*.

Why is Measurement Important?

Steel is often abrasive blast cleaned or otherwise roughened prior to painting. The peak-to-valley height of the resultant surface profile is an important factor in the performance of applied protective coatings.

Low profile may reduce coating bond strength (adhesion). Too high and the peaks may receive insufficient coverage and possibly rust prematurely. The costly application of more coating may be required if the profile is too high.

For these reasons, surface profile should be measured prior to coating application to ensure that it meets contract specifications.

Quick Start

The PosiTector *SmartLink* powers-up when the LED button is pressed. To preserve battery life, the PosiTector *SmartLink* powers-down after 5 minutes of no activity. Alternatively, press and hold the LED button until it turns red and shuts off (approximately 5 seconds). All probe settings and calibration adjustments are retained within the PosiTector *SmartLink*, stored measurement data is retained within the smart device (cell phone, tablet).

Wirelessly connect the PosiTector probe to the smart device using the PosiTector App.

Measure

1 Remove the protective rubber cap from probe.

2 Place the included glass zero plate onto a stable, flat surface. Take a reading on the plate. If the average of several readings is not within tolerance of the probe, zero the probe (pg 10).

3 Place the probe FLAT on the surface to be measured such that the tip of the probe reaches into the bottom of a profile valley. HOLD STEADY until a reading is displayed.

Lift the probe from the surface between readings.

PosiTector App

The PosiTector App connects a PosiTector *SmartLink* to your iOS device enabling you to use PosiTector *6000*, *DPM*, *SPG*, or *RTR-H* probes on your device without the need for a conventional gage body.

Screen fonts, brightness and displayed language are inherited from your smart device settings. Currently, the PosiTector App has language support for English, Spanish, French, German, Chinese and Korean. Screen orientation is fixed to portrait only, rotation to landscape is not supported.

Stored batch readings, images and notes are all stored in the PosiTector App (on your smart device). The number of stored batch readings is only limited by the memory available on your smart device. If the application is removed or a menu *Reset* (pg 25) is performed, all stored measurements and associated data is permanently erased.

NOTE: Prior to uninstalling the PosiTector App or performing a *Reset* (pg 25) it is recommended that you synchronize/copy measurement data to *PosiSoft.net* (pg 28) or share the batch data (AirPrint or email report). This ensures that the data is saved for future reference.

Wirelessly Connecting the PosiTector App to a PosiTector *SPG* probe

1 Power-up the PosiTector *SmartLink* and connected *SPG* probe by pressing the LED button. The button will blink blue.

2 Select the PosiTector *SmartLink* App icon on your smart device. A menu containing the following options will be displayed:

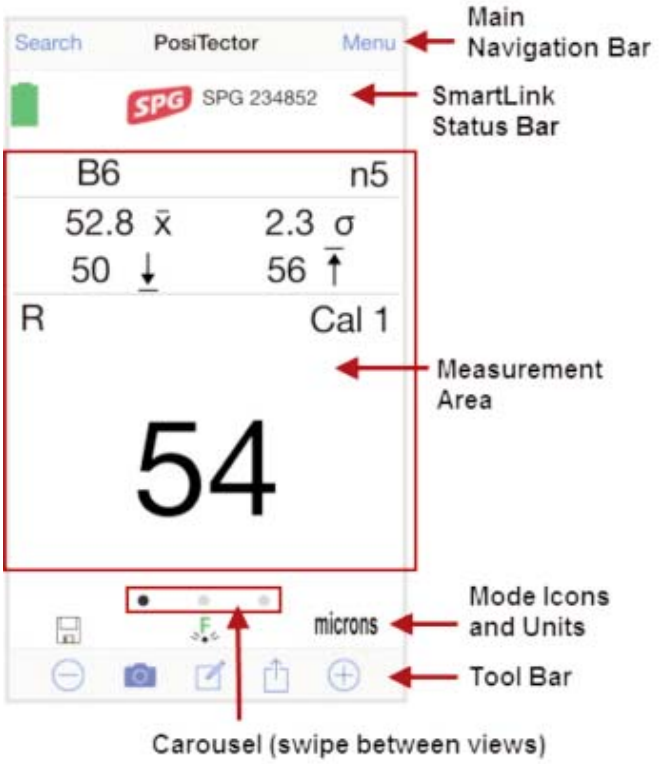
3 Select ***Continue***. A list of available PosiTector probes (listed by connected probe type and serial number) will be displayed.

Select the desired PosiTector *SmartLink* to connect. The LED button on the PosiTector *SmartLink* will illuminate solid blue when successfully connected.

The probe model and serial number is engraved on the backside of the plastic probe connector (i.e. *SPG* 234852).

User Interface

The user interface was designed to combine the proven simplicity of PosiTector gages and the advanced functionality of a smart device's features including touch, swipe, keyboard, camera and more. The interface will be instantly recognizable to those familiar with PosiTector instruments.



Main Navigation Bar

The Main Navigation section is dynamic and may change from one screen to another.

In the above example, ***Search*** and ***Menu*** navigation options are available.

Search returns back to the list of available PosiTector *SmartLink* devices. *Menu* accesses the *Main Menu*.

SmartLink Status Bar

Displays information about the connected PosiTector *SmartLink* and associated probe.

The example indicates that the PosiTector *SmartLink* battery status is full and connected to a PosiTector *SPG* probe (serial number: 234852).

Measurement Area

Displays measurement related information. The surface profile example on page 4 shows the last measurement (54 microns). *Memory* is ON and measurements are being stored into Batch 6 (B6).

The measurement area will change depending on the connected probe type and selected modes.

Modes Icons and Units

Displays icons for active modes (such as the disk icon for Memory mode, pg 12), current calibration adjustment type (Factory), and measurement units (microns).

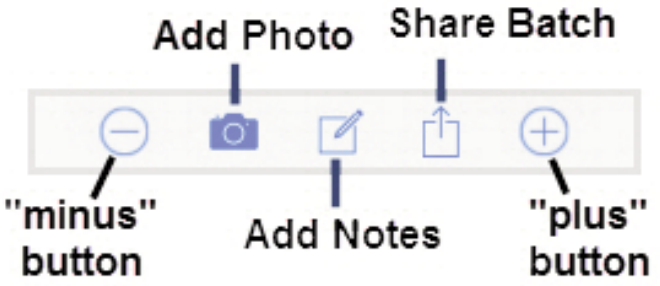
Carousel

The carousel is displayed when more than a single view (screen) is present. The number of dots represent the number of available views. Swipe your finger horizontally across the screen to switch between views.

Tip: Some views contain interactive areas. For this reason we recommend swiping horizontally across the *Mode Icons* and *Units bar*.

Tool Bar

Displays available actions applicable to current operating modes (i.e. *Memory* (pg 12), *Statistics* (pg 22), *HiLo* (pg 22), etc.)

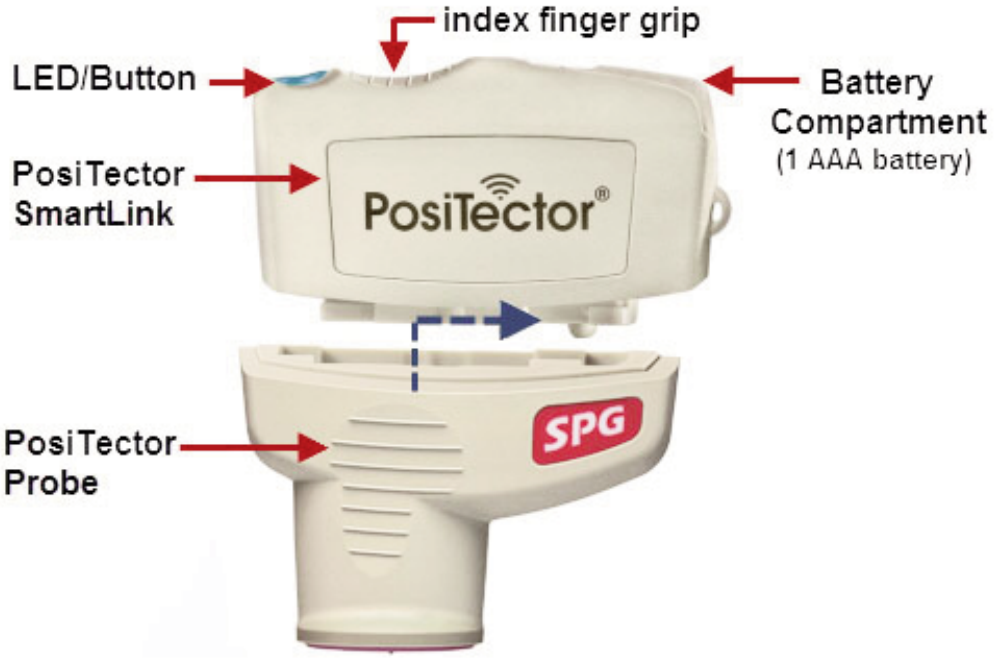


PosiTector *SmartLink*

The PosiTector *SmartLink* acts as a relay between the PosiTector probe and PosiTector App using wireless Bluetooth Smart (BLE Bluetooth Low Energy). No pairing required! Auto-pairing Bluetooth connection works up to 10 m (30 feet) away.

Information specific to currently selected modes and user calibration adjustments (specific to each probe) are retained within the PosiTector *SmartLink*. This allows for seamless switching between smart devices (phone and tablet).

NOTE: Measurement data is not stored within the PosiTector *SmartLink*. All measurement data (readings, images, notes) is stored within the PosiTector App on your smart device.



Connect a Probe

To connect a probe, slide the plastic probe connector in the direction of the arrow (shown on pg 6) until it locks in place. Reverse for detaching the probe.

When powered-up, the PosiTector *SmartLink* automatically determines what type of probe is attached and does a self-check. The probe type, model and serial number are displayed when found within the app's *Search* screen.

NOTE: The PosiTector App features probe hot-swap. During the measurement process, probes can be interchanged without the need to go back to the search screen. Simply swap probes (PosiTector *SmartLink* will power-down) and then power-up the PosiTector *SmartLink*. The PosiTector App will automatically recognize the probe and be ready to measure.

Power-up / Power-down

The PosiTector *SmartLink* powers-up when the LED button is pressed. To preserve battery life, the PosiTector *SmartLink* powers-down after 5 minutes of no activity. Alternatively, press and hold the LED button until it turns red and shuts off (approximately 5 seconds). All probe settings and calibration adjustments are retained, stored measurement data is retained within the smart device.

Tri-Color LED Button

The LED visually provides connection and measurement status.

LED Color Status:

Blue Blink = Not Connected to PosiTector App

Blue Solid = Connected to PosiTector App

Green Blink = Successful Reading

PosiTector *SPG* Probes

PosiTector *SPG* probes measure the peak-to-valley height of the surface profile of abrasive blast cleaned surfaces.

The supplied probe tip has a 60° angle to comply with most test standards including ASTM D 4417 B. An optional 30° angle tip with replacement tool is available for special applications or to comply with Australian Standard AS 3894.5.

A replacement tool is included with the purchase of either the 60° or 30° angle tips. Insert the two legs of the replacement tool into the probe tip and turn counter clockwise to remove the tip. Insert the new tip and tighten clockwise. Do not over tighten. Since the factory zero setting may not always be precise after a probe tip exchange, the gage should be checked on the included glass plate and zeroed if necessary.

More probe information is available at *www.defelsko.com/spg*

Protective Cap

PosiTector *SPG* probes are shipped with a protective rubber cap. Remove this cap prior to use. Replace it when the instrument is not in use to protect the probe.

Factory Calibration

Every PosiTector *SPG* probe is factory calibrated and includes a Certificate of Calibration. This factory calibration information is permanently stored within the probe and cannot be overwritten by the user. The icon indicates factory calibration is in use.

Calibration Adjustment

The PosiTector *SPG* has only one adjustment point at zero. The Zero adjustment made by the user is stored within the PosiTector *SmartLink*.

Certification

PosiTector *SPG* probes include a Certificate of Calibration showing traceability to a National Metrology Institution. For organizations with re-certification requirements, instruments may be returned at regular intervals for calibration. DeFelsko recommends that customers establish calibration intervals based upon their own experience and work environment. Based on our product knowledge, data and customer feedback; a one year calibration interval from either the date of calibration, date of purchase, or date of receipt is a typical starting point.

Calibration, Verification & Adjustment

The **PosiTector *SPG*** probes measure the peak-to-valley height of the surface profile of abrasive blast cleaned surfaces. Three steps ensure best accuracy...

1. Calibration - typically done by the manufacturer. All probes include a Certificate of Calibration

2. Verification - typically done by the user on known reference standards such as included metal shim

3. Adjustment - zero calibration adjustment on smooth flat surface (included glass plate)

Calibration

Calibration is the high-level, controlled and documented process of measuring traceable calibration standards over the full operating range of the probe, and verifying that the results are within the stated accuracy of the probe. Calibrations are performed by the manufacturer, their authorized agent, or by an accredited calibration laboratory in a controlled environment using a documented process.

PosiTector *SPG* probes are shipped with a Certificate of Calibration showing traceability to a National Metrology Institution. For organizations with re-certification requirements, probes may be returned at regular intervals for calibration. DeFelsko recommends that customers establish calibration intervals based upon their own experience and work environment. Based on DeFelsko's product knowledge, data and customer feedback, a one year calibration interval from either the last date of calibration, date of purchase, or date of receipt is a typical starting point.

Written Calibration Procedures are available online at no charge. *http://www.defelsko.com/quality/calibration_procedures.htm*

Verification

Verification is an accuracy check performed by the user using known reference standards. A successful verification requires the Gage to read within the combined accuracy of the probe and the reference standards.

Instrument accuracy is verified using the included metal shim and glass zero plate.

Place the plate onto a stable, flat surface. Take several readings. If the average is not with tolerance of the probe, zero the probe.

Next, place the metal shim over the glass plate and measure ensuring the probe needle touches the glass plate in the area between the shim's "legs". The average of several readings should be within the combined tolerances of both the shim and the gage.

Verify accuracy at the beginning and the end of each work shift. During the work shift, if the Gage is dropped or suspected of giving erroneous readings, its accuracy should be re-verified. In the event of physical damage, wear, high usage, or after an established calibration interval; the probe should be returned to the manufacturer for repair or calibration.

Zero Calibration Adjustment

The PosiTector *SPG* has only one adjustment point at zero.

Zeroing the probe on the glass plate is the preferred zero adjustment method:

1 Select ***Zero*** from the menu.

2 Press the ⊕ button to select the number of readings to be used to obtain an average, typically 3.

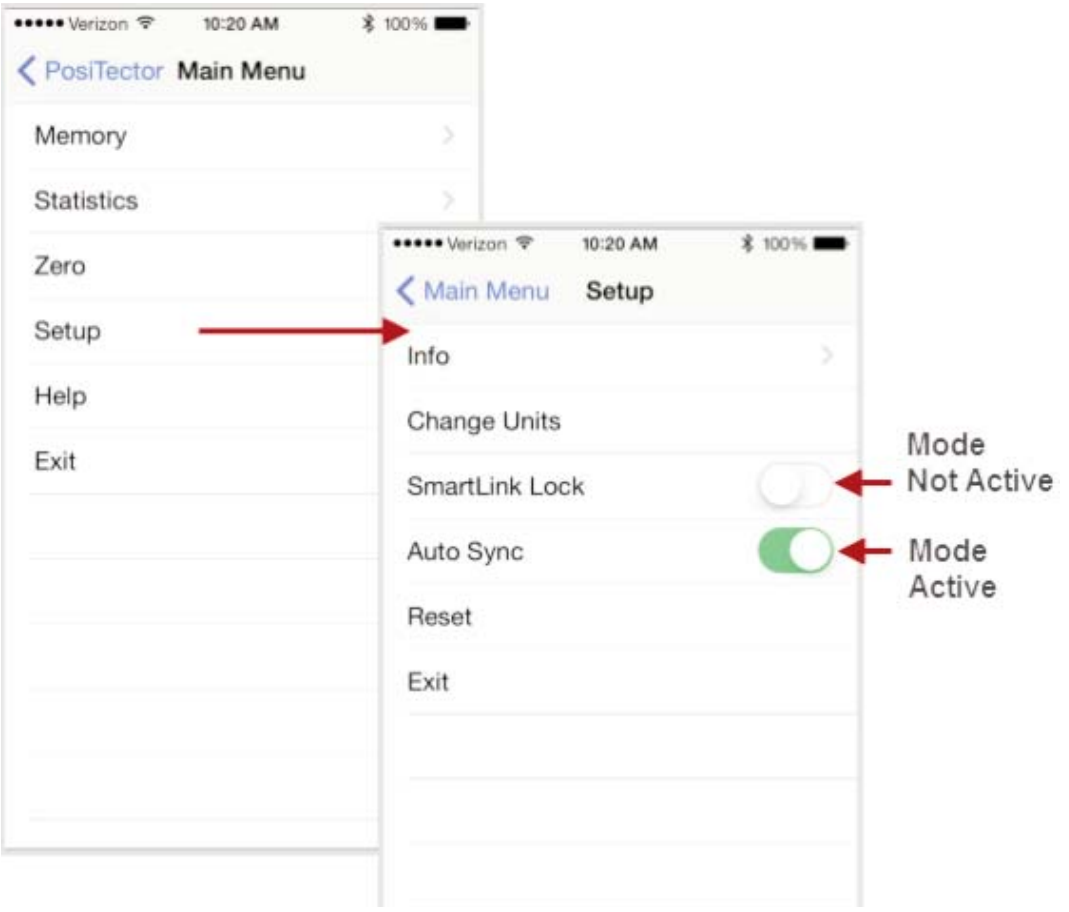
3 Repeatedly measure the glass plate. After the last reading the gage will calculate a Zero which represents the average of all the Zero readings taken.
The icon will display.

NOTE: If a glass plate or suitable smooth, hard surface is not available, factory zero calibration can be used. Factory calibration can be restored by performing a *Reset* (LED Button Reset, pg 25).

The factory zero setting may not always be precise, particularly after a probe tip exchange. For best accuracy, the gage should be zeroed on the included glass plate.

Menu Operation

PosiTector *SPG* functions are menu controlled. Access them by selecting ***Menu*** in the upper right of the PosiTector App display.



The **Main Menu** contains the following **sub-menus**...

- ***Memory*** (pg 12)
- ***Statistics*** (pg 22)
- ***Zero*** (pg 10)
- ***Setup*** (pg 24)

Select ***Exit*** to close the menu.

Memory Menu

The PosiTector App uses your smart device's storage for recording measurement data. Stored measurements can be reviewed on-screen, printed (AirPrint), shared via email (PDF, CSV) or synchronized with cloud-based *PosiSoft.net* (pg 28). Measurements are date and time-stamped (using date/time from smart device).

The following options appear within the *Memory* menu. Additional options may appear depending on the connected PosiTector *SmartLink* and probe type.

New Batch

Closes any currently opened batch and creates a new batch name using the lowest available number. For example, if only Batch 1 and Batch 3 exist, then Batch 2 would be created and made the current batch.

The icon appears and basic statistics are displayed. Each measurement will be displayed and stored into this new batch. On screen statistics are immediately updated with each measurement. New batch names are date-stamped at the time they are created.

Shortcut: When a batch is open, press the LED button on the PosiTector *SmartLink* or ⊕ icon on the display to create a new batch.

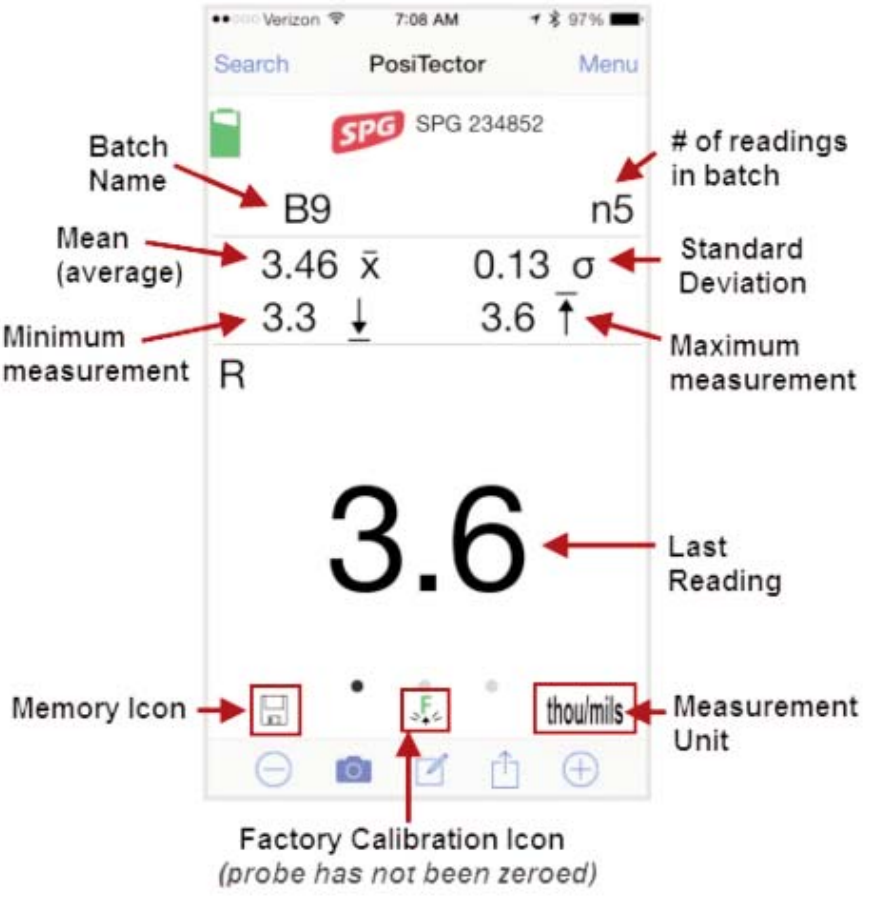
The following 3 screen views are available when a batch is open (*Memory* ON). Swipe your finger horizontally across the screen to switch between views.

A carousel is displayed when more than a single view (screen) is present. The number of dots represent the number of views.

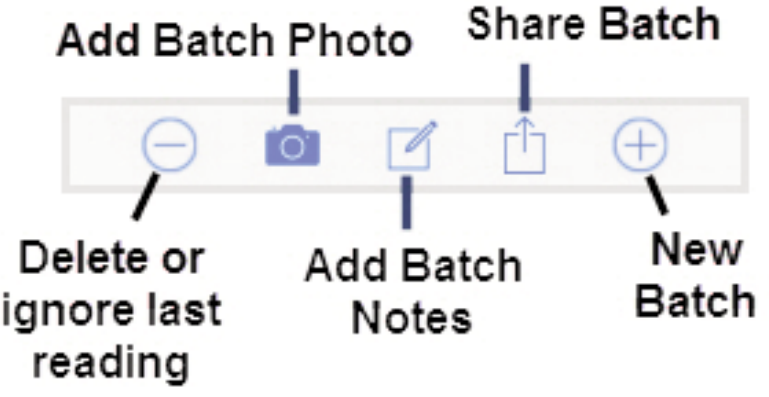
Swipe your finger horizontally accross the screen to switch between views.

Batch Summary View

In the PosiTector *SPG* memory example below, the batch name is B9 and contains 5 measurements.



Use the **Tool bar icons** to add notes and change the batch name (pg 16), add new batch (pg 14) and add an image (pg 15).



Delete or Ignore last reading from the current open batch.

When selected, the following menu appears.

Ignore Readings are retained within the batch but are excluded from the report's statistical summaries and charts.

The ignored readings are highlighted within the *Batch Readings View* (Shown here. See also pg 17).

By default Ignored Readings are not included on reports. For inclusion, toggle the Hide Ignored Readings within the *Batch Report Configuration* (pg 20). Ignored Readings will display has highlighted within the readings section of the report, but are excluded from the statistical summary and chart.

Delete Reading permanently removes the selected measurement from the current batch.

NOTE: Readings that have been synchronized (automatically or manually) with *PosiSoft.net* (pg 28) cannot be deleted. To exclude them from report summaries and charts select ***Ignore*** Reading.

Cancel exits the menu.

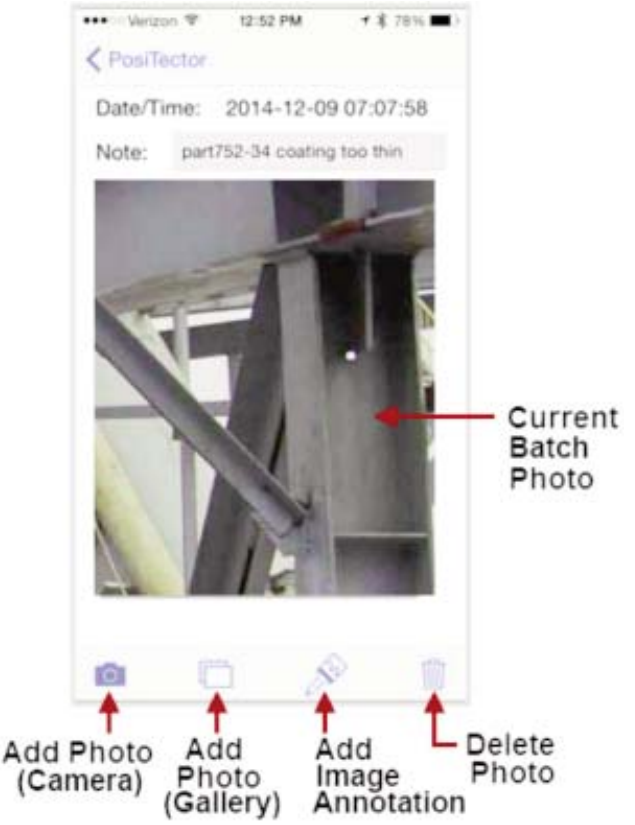
New Batch

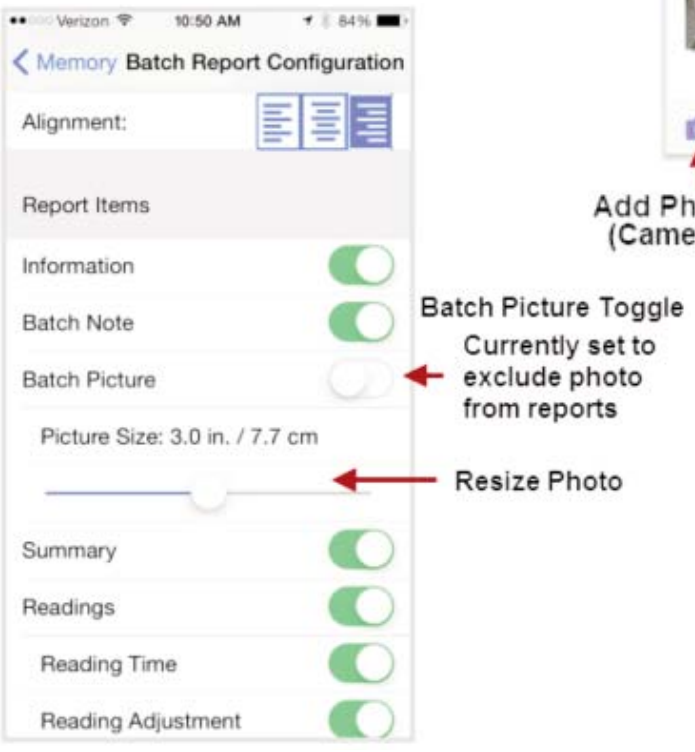
Closes any open batch and creates a new batch name using the lowest available number.

Add Photo to the currently opened batch or dataset.

Batch Photo, Reading Photos and Image Annotations can be included in reports (default) and synchronized with *PosiSoft.net* (pg 28).

The photo can be resized or hidden from reports within the *Memory >> Batch Report Configuration* menu (pg 20).



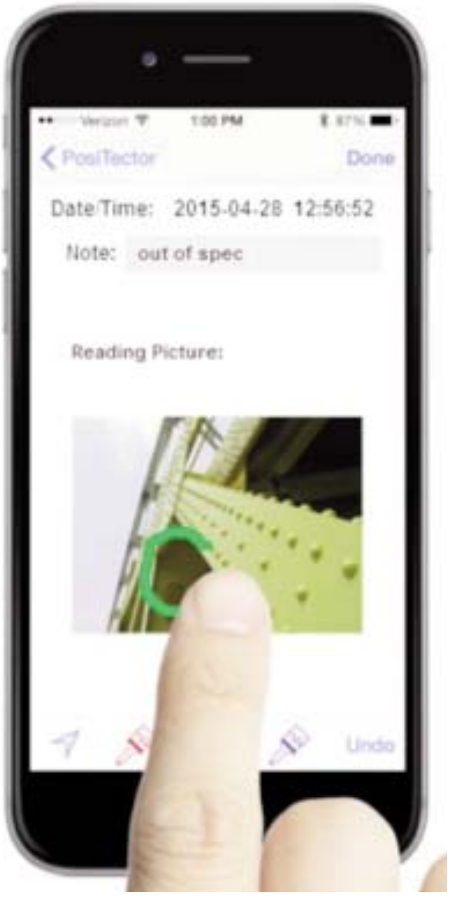


Add Image Annotation

This drawing tool is ideal for identifying a specific location or area within an image.

Choose from three paint brush colors - Red, Green or Blue.

Use finger or stylus to draw over the displayed image.

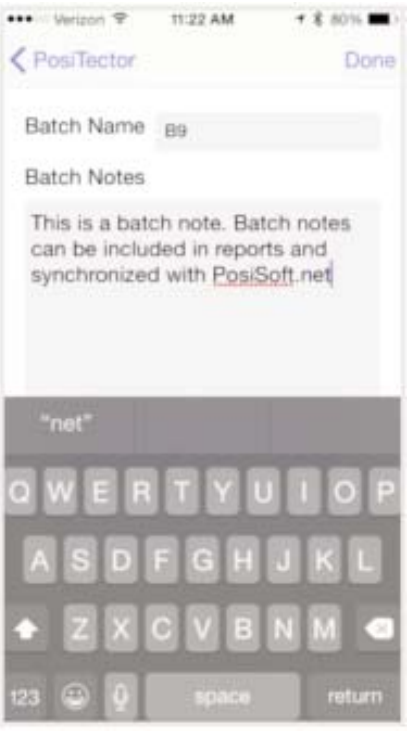


NOTE: Connection to a PosiTector *SmartLink* is not required to add a photo or image annotation to an existing batch.

Add Notes to currently opened batch or dataset.

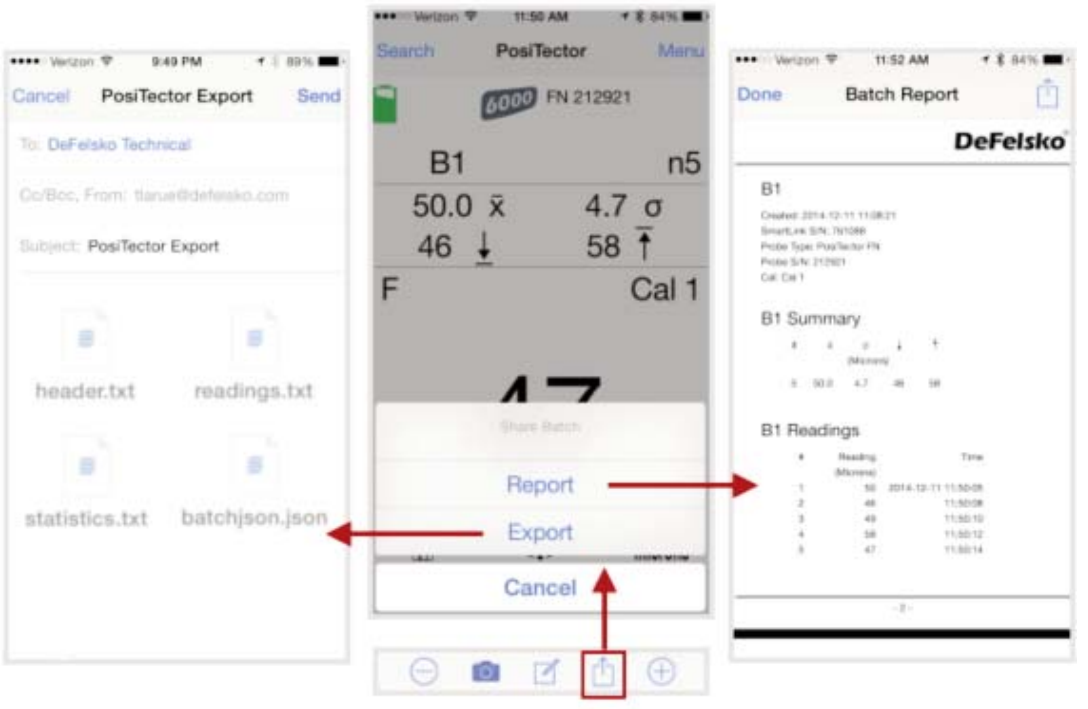
Change the batch name and add batch notes using your smart device's keyboard or dictation tools.

Batch names/notes appear on reports and are included when measurement data is synchronized with *PosiSoft.net* (pg 28).



Share Batch

Share/view professional PDF reports and CSV data instantly via email, AirPrint, Dropbox or other applications on the smart device.



Select ***Share Batch***

Report

Generate PDF reports instantly and share via email, Dropbox or other applications on your smart device.

Batch reports can be customized within the *Batch Report Configuration* menu (pg 20).

Export

Email CSV (comma-delimited) comma-separated text files which can easily be imported into supporting applications such as spreadsheets and databases. A .json formatted file is also included.

Batch Readings View

Lists all readings contained in the current batch. New readings are added to the list instantly as they are taken.

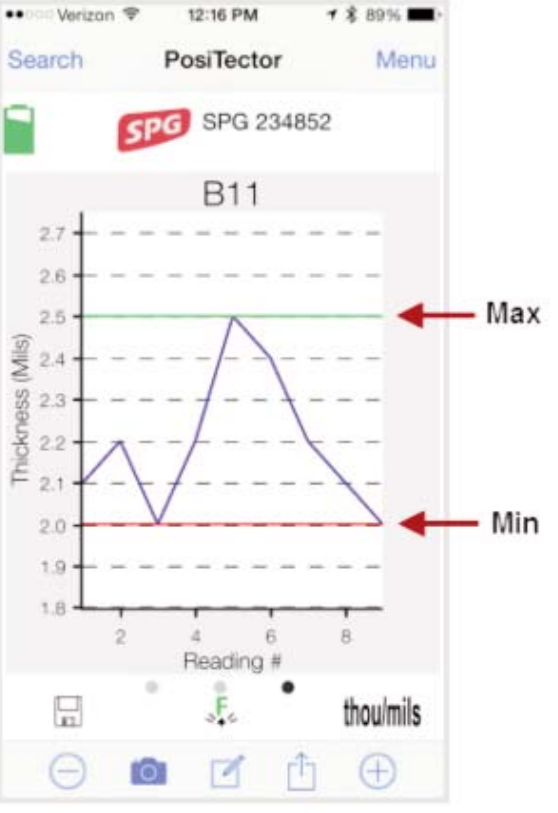
A note and/or photo can be added to each individual reading.

Notes and photos can be displayed in batch reports and synchronized with *PosiSoft.net* (pg 28).

Batch Chart View

Lists all readings contained in the current batch. New readings are added to the list instantly as they are taken.

Pinch the active region of the chart to zoom the view.



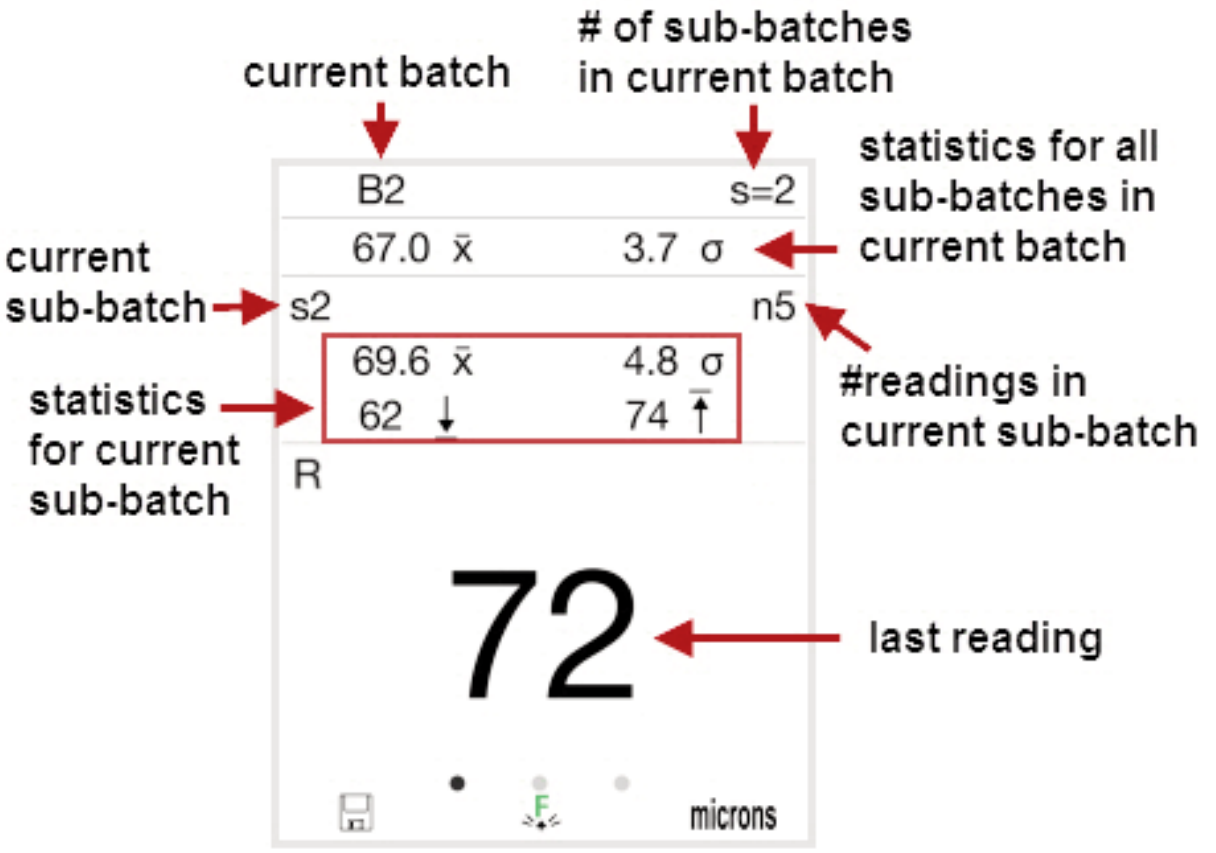
New Sub-Batch (*appears only if a batch is currently open*)

Creates a new sub-batch within the currently opened batch.

Shortcut:

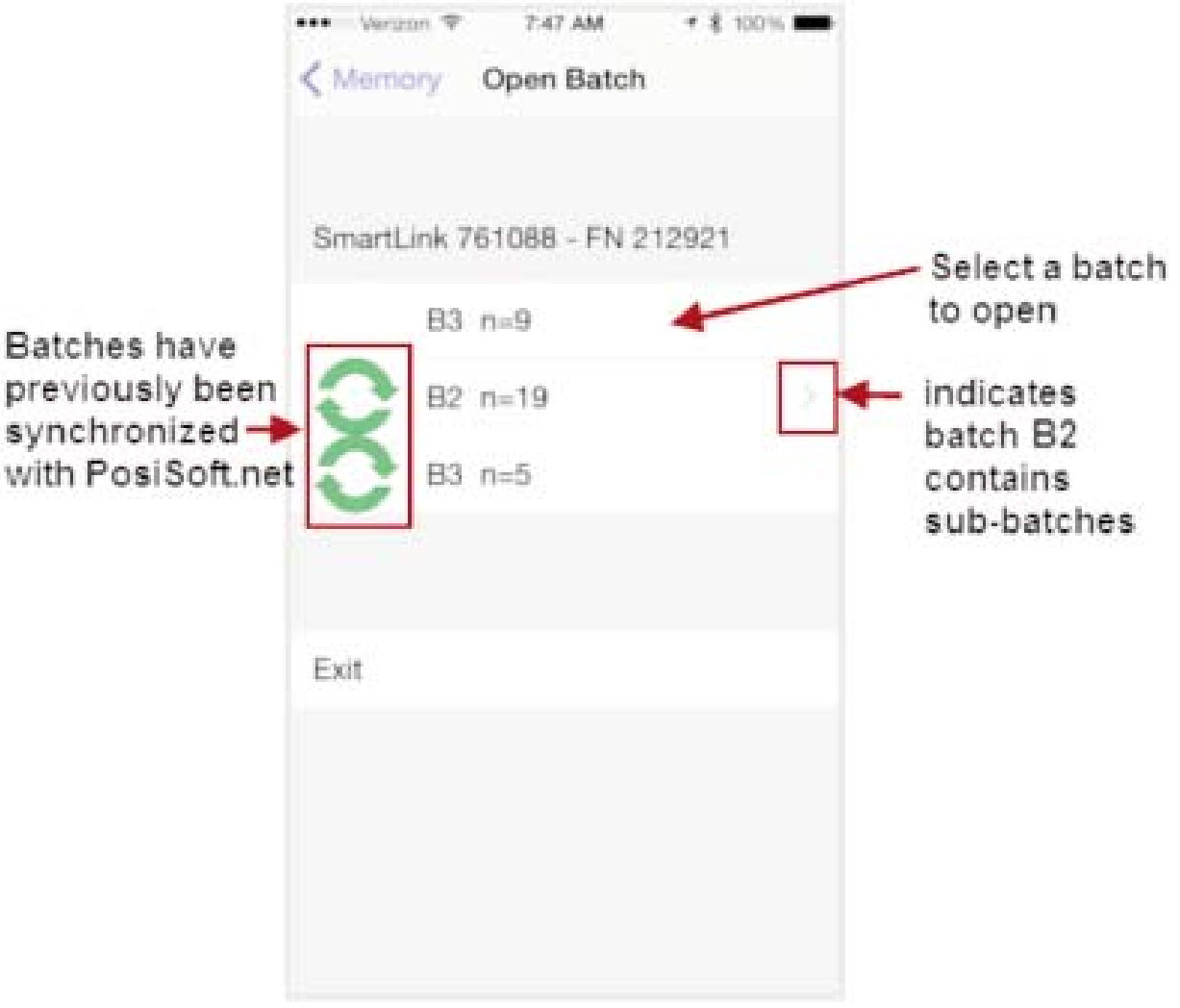
When a sub-batch is open, create a new sub-batch by pressing ⊕ or the LED button.

In the following example, B2 s2 is a sub-batch of Batch 2. Sub-batching allows the user to group related batches so that statistics can be accumulated for them. Batch 2 contains the statistics for B2 s1 and B2 s2. Ideal for obtaining the average of averages.



Open

Lists all stored batches. Select the desired batch to open.



Additional measurements can be added to existing batches only if the original probe is attached to the PosiTector *SmartLink*.

NOTE: Opening a batch that was not created with the currently attached probe will disconnect the PosiTector *SmartLink* from the PosiTector App. You will still be able to add notes, photos, etc. to the batch.

Close

Closes the current batch and turns *Memory* OFF.

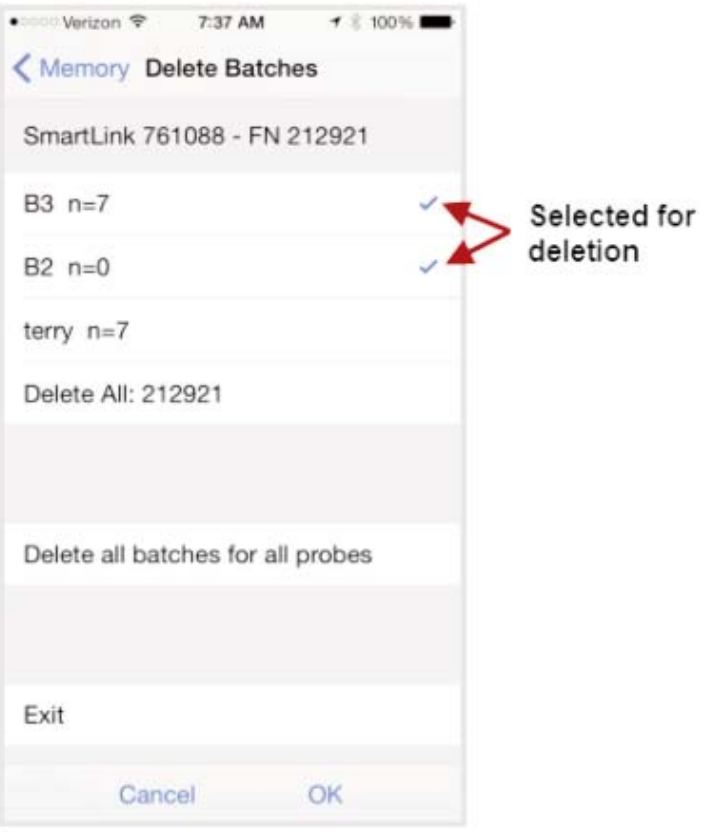
Batch measurement data is retained when a batch is closed.

Delete

Permanently remove a batch or sub-batch from the PosiTector App.

Select batches for deletion, then select ***OK***. Or select ***Delete*** all batches for all probes to permanently delete all measurement data from the smart device (phone/tablet).

If the batches have been synchronized or copied to *PosiSoft.net* (pg 28), a copy will remain there.



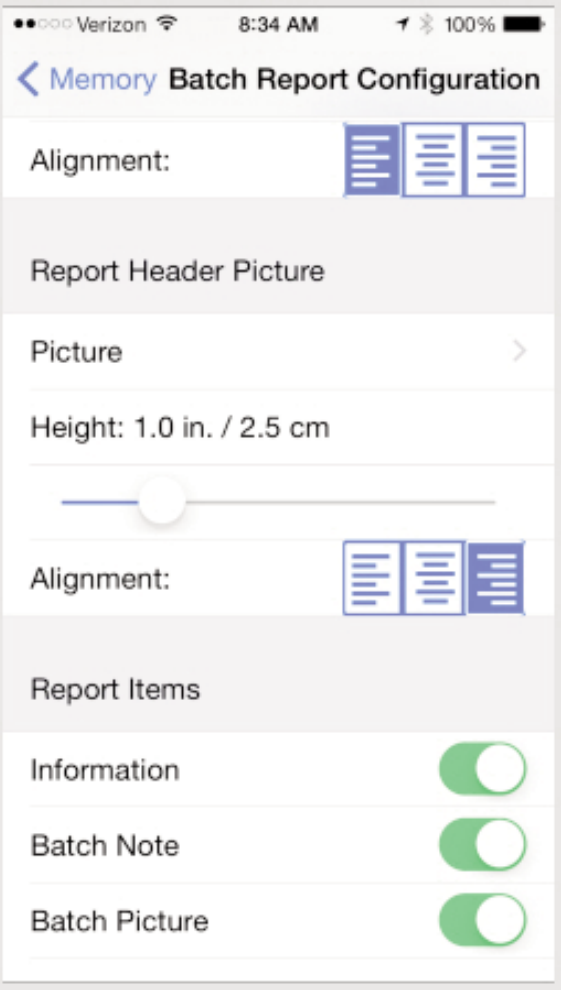
Batch Report Configuration

Customize reports using the *Batch Report Configuration* to include/exclude notes, images, logo, company/report name, fonts, alignment, image sizes and more.

Select ***Preview Report*** to review your changes.

NOTE:

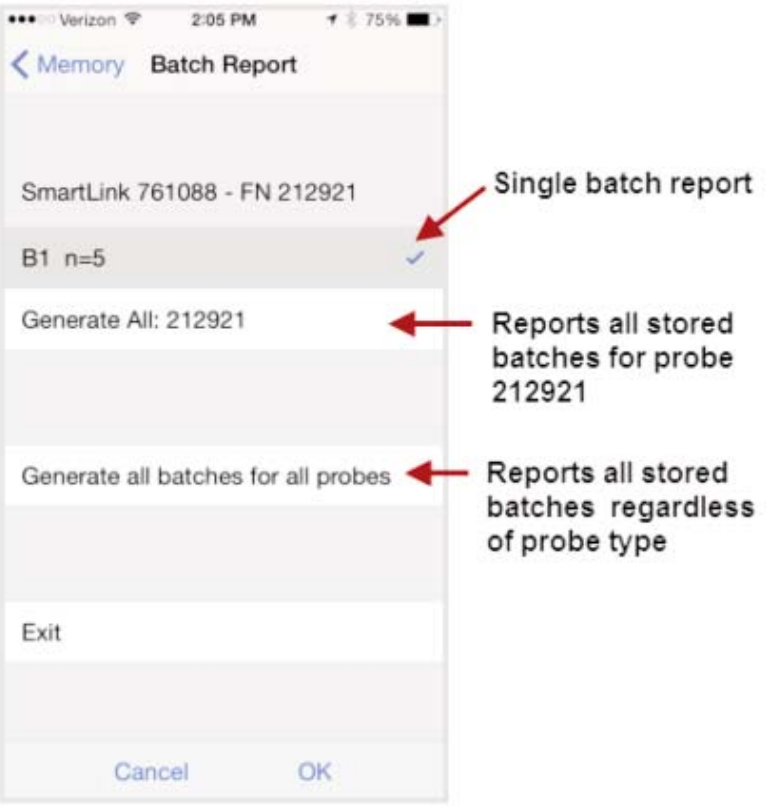
The *Preview Report* displays sample batch data (not your actual batch data).



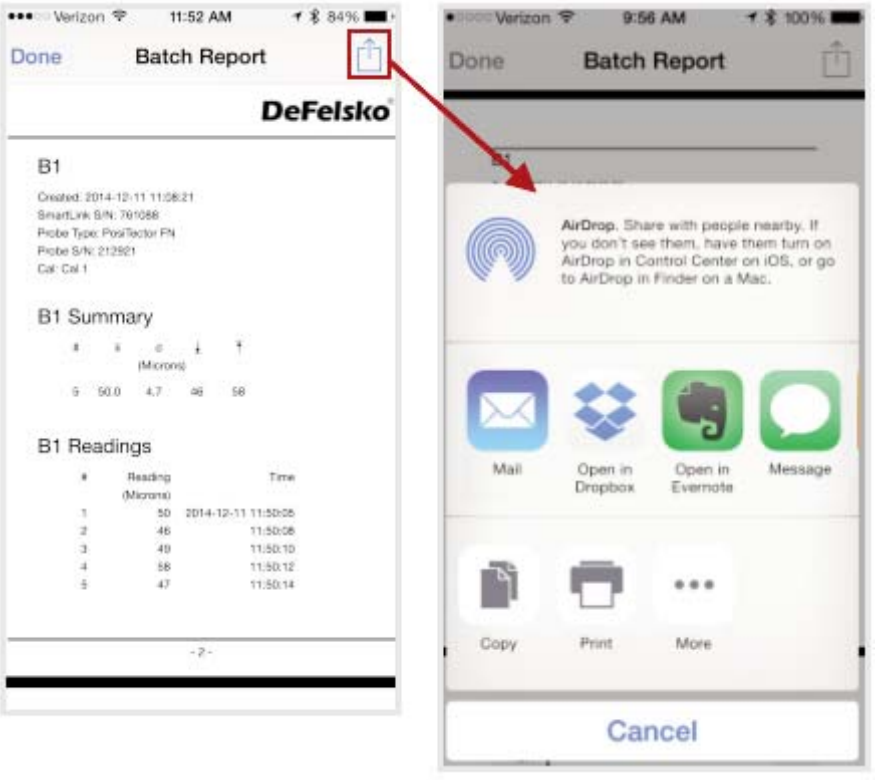
Batch Report

Generate a report summarizing an individual batch or multiple batches.

Select desired batch or batches to include in the report and press ***OK***.



Share the report instantly via email, AirPrint, Dropbox or other applications on your device.



Sync Now *

Copy from PosiSoft.net *

Copy to PosiSoft.net *

* For details see, *Synchronize (Sync) with PosiSoft.net* (pg 29)

Statistics Menu

Statistics

When toggled ON, the $\bar{x}$ icon appears and a statistical summary is displayed.

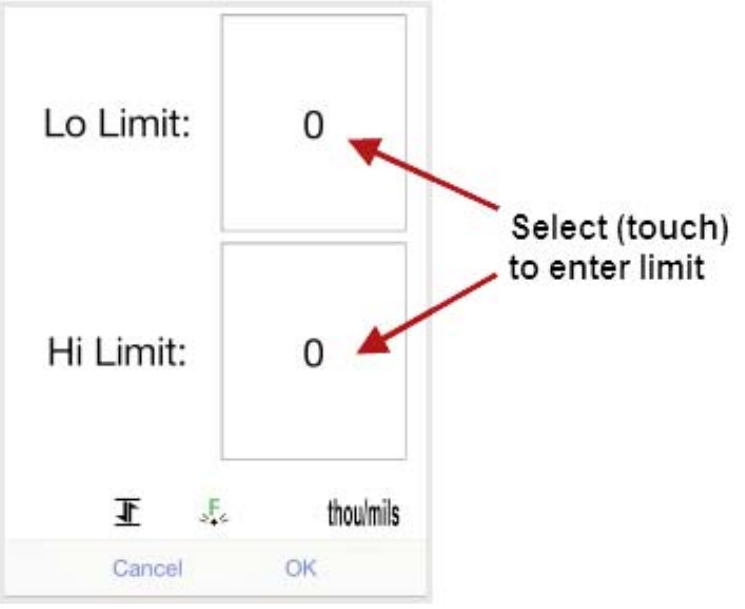
⊖ Deletes the last reading. Press ***Clear*** or the ***LED button*** on the PosiTector *SmartLink* to clear statistics.

HiLo Alarm

When toggled ON, user is visibly alerted when measurements exceed user-specified limits defined in HiLo Alarm Limits. The icon will appear on the display.

HiLo Alarm Limits

Define Lo and Hi alarm limits by selecting (touching) the appropriate box.



When selected, the Lo Limit is highlighted and a number pad appears. Enter the desired Lo Limit value.

Alternatively, measure a coating with a thickness close to the required value and make final adjustments with the number pad.

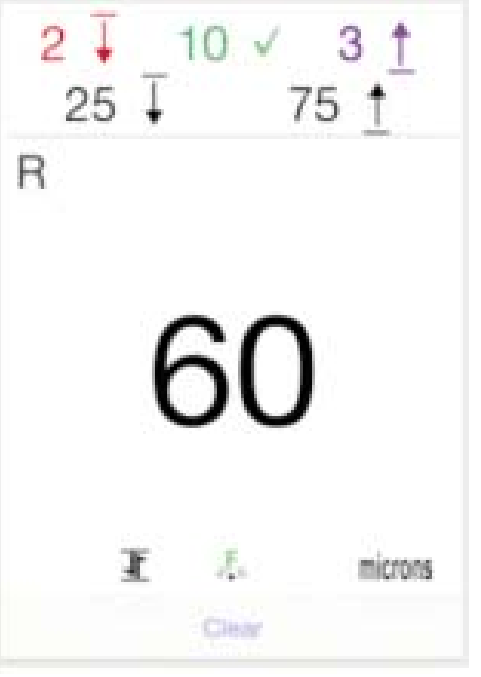
Select ***Apply*** to accept the value.

The Hi Limit is now highlighted.

Enter the desired Hi Limit value.

Select ***Apply*** to accept this value.

When HiLo Alarm is toggled ON, measurements will be compared to your defined HiLo limits.



Press ***Clear*** to clear HiLo tabulations.

Clear

Clears all on-screen HiLo tabulations.

Setup Menu

SmartLink Info

Provides information about the currently connected PosiTector *SmartLink*, Probe and PosiTector App version.

The PosiTector *SmartLink* Serial Number and unique Key are required to register for a free *PosiSoft.net* account (pg 28). An account is not required for *Copying Batches To/From PosiSoft.net* (pg 31).

Change Units

Converts the display from imperial to metric or vice versa. Stored readings in memory are not converted.

Switching units will turn off *Statistics* (pg 22), *HiLo Alarm* (22), and close *Memory* (pg 12).

SmartLink Lock

Locks the PosiTector *SmartLink* to a smart device. This prevents other PosiTector App users within range (10 m / 30 ft) from inadvertently connecting to a *SmartLink*.

Toggle the *SmartLink* Lock within the Setup menu to lock the PosiTector *SmartLink* to a smart device. You will have to unlock it if you want to wirelessly connect to another smart device.

NOTE: The PosiTector *SmartLink* is not visible on other smart devices while you are connected (once you have selected the PosiTector *SmartLink* from the *Search* screen).

Auto Sync

See *Synchronize (Sync) with PosiSoft.net* (pg 29)

Reset

Restores factory default settings. Ideal for returning settings to a known condition.

Suggestion: It is recommended that you synchronize all stored measurement data to *PosiSoft.net* (pg 28) prior to performing a *Reset*. This provides a backup solution in case measurement data has been deleted in error. Data on *PosiSoft.net* is not affected by a *Reset*.

There are two available *Reset* options:
Menu Reset and ***PosiTector SmartLink (LED Button) Reset***

Menu Reset (*PosiTector App*)

Select ***Reset*** from the *Setup* Menu.

The following occurs after a warning message:

- All stored batches, measurements, images, notes, annotations are deleted.
- All calibration settings (adjustments) and *Cal Memory* are cleared and restored back to factory settings (provided PosiTector *SmartLink* is ON and connected to App). To keep calibration settings, power off the PosiTector *SmartLink* prior to performing this *Menu Reset*.

Settings are returned to the following:
Memory = OFF
Statistics = OFF
Units = Microns
HiLo Limits = OFF
Auto Sync = OFF
Report Configuration Settings = restored to default

LED Button Reset (*PosiTector SmartLink*)

With the PosiTector *SmartLink* powered-down, press and hold the LED button until it flashes green (approximately 10 seconds).

The following occurs...

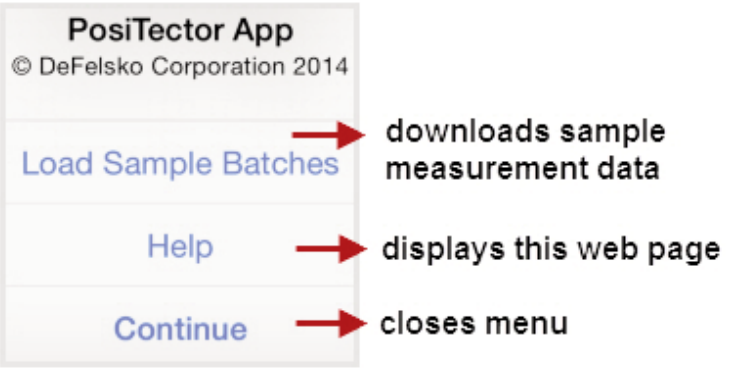
- All calibration settings (adjustments) are cleared and restored back to factory settings.

Settings are returned to the following:
Units = Microns
SmartLink Lock = OFF

Load Sample Batches

Sample measurement data can be loaded into the PosiTector App by selecting Load Sample Batches when the app is first opened.

An internet (data) connection is required to load sample batches from the cloud.

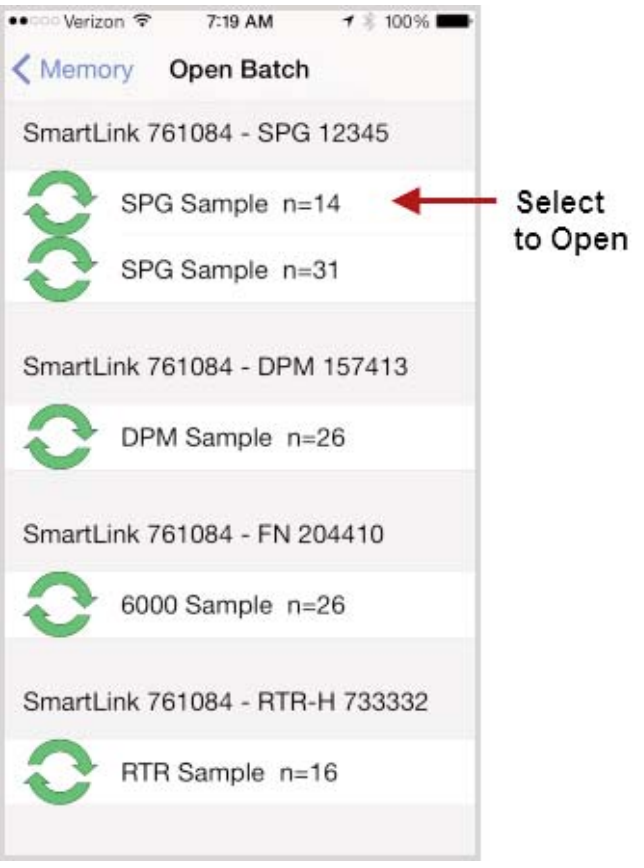


To view the sample batches, select ***Open*** from the *Memory* menu (pg 12).

They are identified with the word "Sample" in the batch name.

1 Select ***Menu*** at the top left of the App.

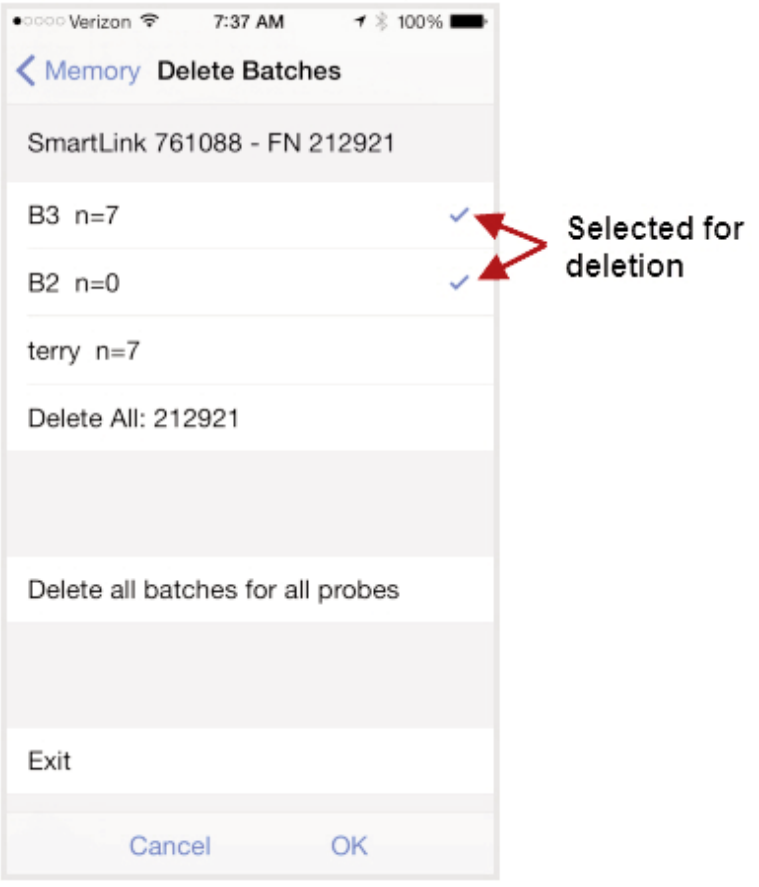
2 Select ***Memory*** >> ***Open***. The following screen will appear:



3 Select desired batch to open (touch selection).

Sample batches can be deleted from the PosiTector App by selecting ***Delete*** from the Memory menu (pg 12).

Select individual batches for deletion and select ***OK*** or select ***Delete*** all batches for all probes to delete all measurement data.



NOTE:

Sample Batches can be altered as desired.

Add pictures, notes, print reports to get comfortable with the app.

If you would like to restore the sample batches back to their original state, simply close and re-open the PosiTector App and select ***Load Sample Batches***.

This action will overwrite the previously loaded batches.

Sample Batches cannot be synchronized with *PosiSoft.net* (pg 28).

PosiSoft.net

PosiSoft.net is a free web-based application offering secure centralized management of measurement data. It is accessed using a standard internet browser from any location in the world.

- View and manipulate synchronized measurement data
- Generate reports with graphs, annotations, and images
- Share measurement data with authorized users via a secure login from any computer or web-enabled device
- Export data to popular formats such as XML and CSV (comma-separated values)
- Securely store (backup) all measurement data in the Cloud

NOTE:

An account is not required to synchronize measurement data to *PosiSoft.net*.

Synchronize (Sync) with PosiSoft.net

Synchronizing (Sync) is a two-way communication process between the PosiTector App and *PosiSoft.net* (no registration required). WiFi/cellular internet data connection required.

Stored batch data including measurements, photos, notes and annotations are included in the synchronization. After synchronization, data on the PosiTector App and *PosiSoft.net* (pg 28) will match (be the same).

New changes made to either will be included and merged during the next synchronization process.

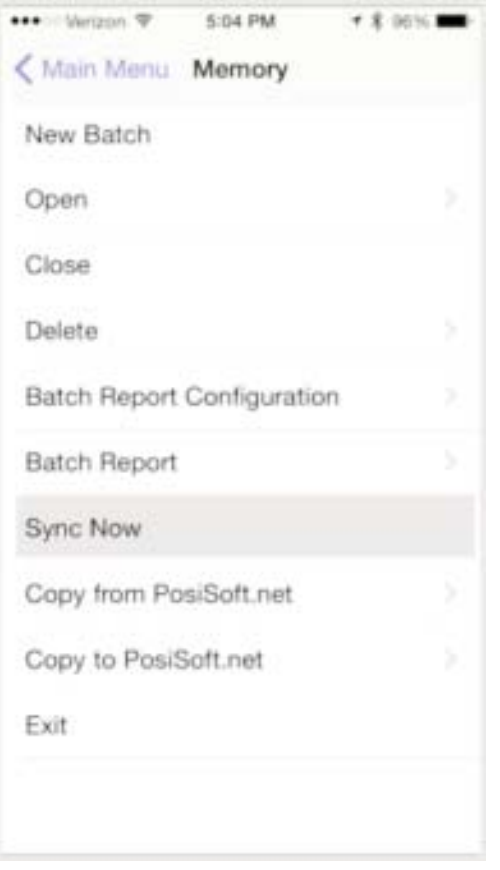
Tip: Prior to synchronizing, it is good practice to change batch names to something more meaningful. This helps identify the batch in the future. Example: Rename "B4" to "Job142-14" or "Section83".

Synchronization can be triggered either manually (*Sync Now*, pg 29) or automatically when batch data changes (*Auto Sync*, pg 30).

Sync Now (*Memory Menu*)

Immediately initiates synchronization.

All batches, readings, photos, notes and batch names for all probes will be synchronized.

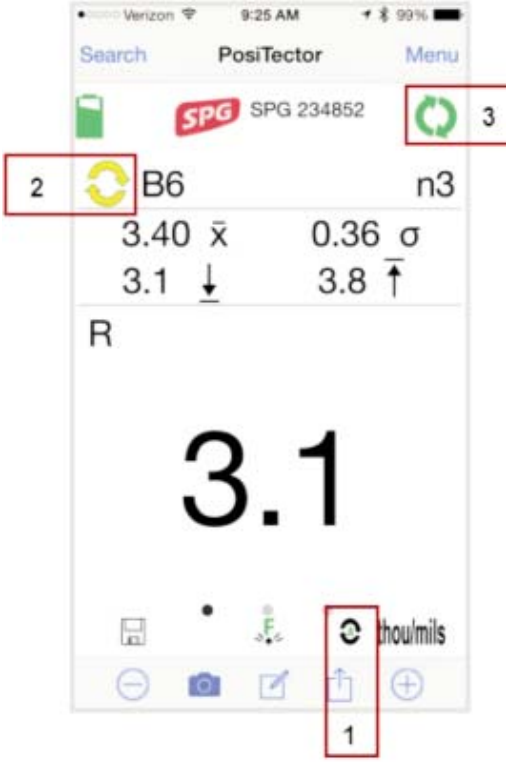


Auto Sync (*Setup Menu*)

When toggled ON; measurements, images and notes will automatically synchronize with *PosiSoft.net* (pg 28).

Synchronization occurs every time batch data changes (new reading, note, photo, etc.)

This example demonstrates the PosiTector App with *Memory* and *Auto Sync* ON. A reading has been stored within the app and is in the process of synchronizing with *PosiSoft.net*.



(1) ***Auto Sync* icon** (*appears when mode is ON*)

(2) Batch Synchronization status with PosiSoft.net

Yellow icon = batch data has changed since last sync
Green icon = batch synchronized

(3) Synchronization transfer status with PosiSoft.net

Green icon = successfully synchronizing
Red icon = attempting synchronization

If successful communication is not established after a period of time, the app will stop trying and the red icon will disappear. Ensure that your smart device has an internet/cellular data connection.

Auto Sync (pg 30) is an ideal backup solution for your measurement data. Data can be copied back to the PosiTector App on the same smart device or another (ideal for switching between smart devices).

To view/interact with synchronized data on *PosiSoft.net* (pg 28), registration of your PosiTector *SmartLink* is required (free account). To transfer all stored batches, select ***Sync Now***.

Copy To/From PosiSoft.net

Sync Now (pg 29) synchronizes all batches data for all probes associated with the connected PosiTector *SmartLink*. Sometimes only a single batch or select batches is desired for transfer.

Copy to or Copy from PosiSoft.net allows the selection of single or multiple batches for transfer.

Ideal solution for switching between smart devices (phone and tablet). Pickup exactly where you left off.

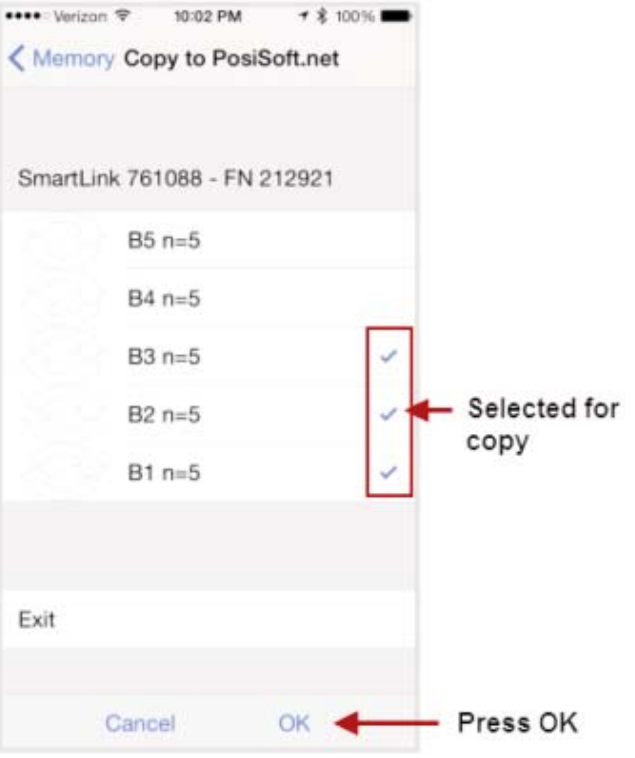
Copy to PosiSoft.net

Select an individual batch or batches to copy to PosiSoft.net.

Ideal when you don't require transferring or synchronizing all stored batches.

The selected batches will be copied to *PosiSoft.net* (pg 28) and you will be returned back to the main measurement screen.

If the batches already exist on *PosiSoft.net* you will be prompted with an overwrite warning message.



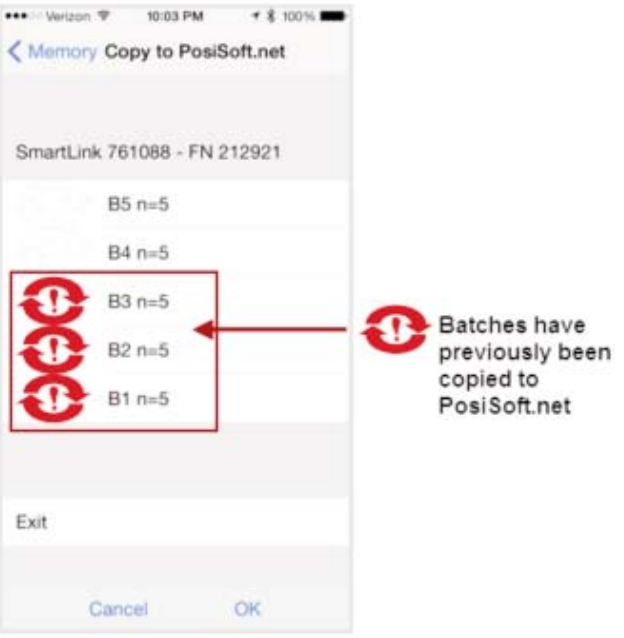
"At least one of the batches you selected already exists on PosiSoft.net. Press ***OK*** to overwrite existing batches. Pressing Cancel will not copy the batches"

If ***OK*** is pressed, the existing batch on PosiSoft.net will be overwritten. **This action cannot be un-done.**

The copied batches will be identified with a symbol within the *Copy to PosiSoft.net* view.

The means that the batch has been previously copied. It is not an indication that batch data is in sync.

If additional measurements have been taken or batch data has changed, select ***Sync Now*** to ensure that data is in sync between the smart device and *PosiSoft.net* (pg 28).



Copy from PosiSoft.net

Select an individual batch or batches to copy from PosiSoft.net to your local PosiTector App.

The means that the batch has been previously copied. It is not an indication that batch data is in sync.

If additional measurements have been taken or batch data has changed, select ***Sync Now*** to ensure that data is in sync between the smart device and *PosiSoft.net* (pg 28).

NOTE: You must have connected the PosiTector App to a PosiTector *SmartLink* previously to be able *Copy To or From PosiSoft.net* (pg 31). This initial connection associates the PosiTector App with the unique identifiers (serial number and key) stored within the PosiTector *SmartLink*. For security purposes, this information is required for the PosiTector App to communicate with *PosiSoft.net* (pg 28). The PosiTector App will retain this association for all connected PosiTector *SmartLinks* until a *Reset* (pg 25) has been performed.

Once associated, you can Copy To and From *PosiSoft.net* with or without a PosiTector *SmartLink* connected.

Switching between Smart Devices

The PosiTector *SmartLink* easily switches between multiple smart devices (i.e. phones and tablets). Batch data can be transfered between devices using the *Copy to and Copy from PosiSoft.net* (pg 31) features.

For example, you may wish to collect measurement data in the field with a smart phone and then document and generate reports on a tablet back at the office.

SmartLink Lock (pg 24) must be off for other devices to be able to connect to the PosiTector *SmartLink*. Ensure this is off prior to switching smart devices.

PosiTector *SmartLink* only (no batch data)

Ensure the PosiTector *SmartLink* is disconnected from the original smart device. Close the PosiTector App or return to the *Search* screen.

Open the PosiTector App on another smart device. Select the PosiTector *SmartLink* (identified by connected probe type and serial number) from the list.

Batch measurements taken on the previous smart device are not present by default. To get batch data from a previous device see below.

PosiTector *SmartLink* with batch data

Sync (pg 29) or *Copy* (pg 31) batch measurement data to PosiSoft.net (pg 28) prior to disconnecting the PosiTector *SmartLink* from the orginal device.

Ensure the PosiTector *SmartLink* is disconnected from the original smart device. Close the PosiTector App or return to the Search screen.

Open the PosiTector App on another smart device. Select the PosiTector *SmartLink* (identified by connected probe type and serial number) from the list.

Select ***Copy from PosiSoft.net*** from the *Memory* menu and choose the desired batches to include in the copy. Press ***OK***.

The chosen batches will be copied from PosiSoft.net to your smart device. Open a batch by selecting ***Open Batch*** from the *Memory* menu. Continue right where you left off.

NOTE: You must have connected the PosiTector App to a PosiTector *SmartLink* previously to be able *Copy To or From PosiSoft.net*. This initial connection associates the PosiTector App with the unique identifiers (serial number and key) stored within the PosiTector *SmartLink*. For security purposes, this information is required for the PosiTector App to communicate with *PosiSoft.net* (pg 28). The PosiTector App will retain this association for all connected PosiTector *SmartLinks* until a *Reset* (pg 25) has been performed.

Once associated, you can *Copy To and From PosiSoft.net* with or without a PosiTector *SmartLink* connected.

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Troubleshooting

Profile depth readings are inconsistent

The complex nature of a blasted steel surface will result in reading variations. If readings are inconsistent on a smooth surface, the probe tip may be damaged, scratched or worn.

PosiTector *SmartLink* not displaying on search screen.

Ensure PosiTector *SmartLink* is powered-up (pg 7), LED is blinking blue and is within range.

Refresh the search using the arrow icon in the upper left of the display.

Verify *Bluetooth* is ON in smart device settings.

Synchronization with PosiSoft.net not successful

Ensure WiFi or cellular internet connection is available and retry.

Camera does not function when attempting to add photo

Verify adequate privacy permissions are set for the PosiTector App.

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