



with PosiTector **DPM** probes Instruction Manual v. 1.0 - Android™





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Introduction

PosiTector DPM Dew Point Meter probes continually measures calculate and record climatic readings, quickly and accurately.

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.



(PosiTector SmartLink with PosiTector DPM probe shown)

The PosiTector *SmartLink* measurement solution consists of a PosiTector App, PosiTector *SmartLink* device and compatible PosiTector probe. In addition to the PosiTector *DPM*, compatible probes include the PosiTector *SPG/RTR-H* (*surface profile*) and 6000 (*coating thickness*).

Why is Measurement Important?

For industrial painters, the primary reason for measuring climatic conditions is to avoid rework and the premature failure of protective coatings. Recommendations and requirements are covered under various internationally recognized standards.

Temperature -

It is important to measure both surface and air temperatures as they are often different. Application at incorrect temperatures can cause defects including: blistering, pinholing, cratering, dry spray & mud cracking. By measuring surface temperature it is possible to avoid potential application problems if air or surface temperatures become too hot or too cold for satisfactory film formation. Surface and air temperatures directly affect the rate of cure of the applied coating or lining system and are major factors in the formation of surface moisture or dew. ASTM D3276 Standard Guide for Painting Inspectors (Metal Substrates) states that the minimum air/surface temperature is usually 5°C (40°F).

Relative Humidity -

the amount of moisture in the air expressed as a percent of overall volume. High relative humidity can retard the rate of solvent evaporation. For this reason, the maximum relative humidity at which coatings or linings can be applied and cured is generally set at 85%. This can be set as an alarm in the Advanced model.

Dew Point Temperature -

the temperature at which moisture will begin to form on a surface. The dew point temperature is a function of air temperature and the relative humidity. (see ISO 8502-4 Annex A). It is the temperature to which a volume of air must be cooled in order to reach saturation. A number of major standards organizations call for careful dew point control. Moisture on a freshly blasted steel substrate will cause the steel to rust. If a thin, invisible film of moisture is trapped between the applied coating and the substrate, the system will likely fail prematurely. To ensure that dew point problems do not exist, ISO 8502-4 and SSPC guidelines state that the surface temperature must be a minimum of 3°C or 5°F above the dew point during the 3 critical phases of coating preparation, application and cure.

Calibration

Calibration is the controlled and documented process of measuring traceable calibration standards and verifying that the results are within the stated accuracy of the Gage. Calibrations are typically performed by the Gage manufacturer or by a certified calibration laboratory in a controlled environment using a documented process.

The PosiTector *DPM* is shipped with a Certificate of Calibration showing traceability to a national standard. For organizations with re-certification requirements, the PosiTector *DPM* may be returned at regular intervals for calibration.

DeFelsko recommends that our customers establish Gage 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.

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

Operation Overview

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).

- 1 Wirelessly connect the PosiTector *DPM* probe to the smart device using the PosiTector App.
- 2 Remove the protective rubber cap from the surface temperature sensor.

Measure

A typical screen consists of **RH**, **Ta**, **Ts**, **Td**, **Ts-Td** and **Tw** readings. This group of readings is referred to as a dataset.

RH	46.0	RH - Relative Humidity (measured)
Та	82.1	Ta - Air Temperature (measured)
Ts	80.3	Ts - Surface Temperature (measured)
Td	59.2	Td - Dew Point (calculated)
Ts-Td	21.1	Ts-Td - Surface <i>minus</i> Dew Point Temperature (calculated)
Tw	67.1	Tw - Wet Bulb Temperature (calculated)
	°F	

RH - The relative humidity sensor is located inside the vented area of the probe housing. The sensor may require a longer period to stabilize in the event of extreme humidity changes.

Ta - The air temperature sensor is located inside the vented area of the probe housing. (Also known as Dry Bulb temperature)

Ts - A surface temperature thermocouple is located on the tip of the probe (built-in probe model). It is spring loaded and designed to quickly self-align on a surface. Press it against a surface and allow a few seconds for the value to stabilze. Do not drag the sensor over the surface, Wet the surface for a faster response. Cover with the included protective plastic cap when not in use.

For surface temperature measurement on steel over an extended of time, consider using a PosiTector Standard or Advanced model with optional Magnetic Surface Temperature probe. Both models feature Auto Log mode for monitoring climatic parameter over extended periods of time. Learn more: www.defelsko.com/dpm/

Td -The dew point temperature is a function of air temperature and relative humidity (see ISO 8502-4 Annex A). It is the temperature to which a volume of air must be cooled in order to reach saturation.

Ts-Td - The surface minus dew point temperature is important in judging the risk of condensation, or dew, forming on a surface. For example, ISO 8502-4 recommends that, unless otherwise agreed, the temperature of a steel surface generally should be at least $3^{\circ}C$ ($5^{\circ}F$) above the dew point when paints are applied.

Tw - The wet bulb temperature is the temperature of adiabatic saturation. This is the temperature indicated by a moistened thermometer bulb exposed to air flow.

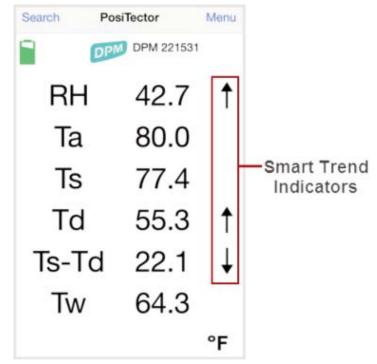
The wet bulb temperature is calculated from Ta and RH using an air pressure of 1.0 atmospheres (1013 mbar). It approximates the temperature indicated by a moistened thermometer bulb exposed to airflow. Variations of Tw at other pressures could be greater than $+1^{\circ}C$ ($+2^{\circ}F$).

NOTE:

Acclimate - The PosiTector *DPM* sensors may require a period of time before the above climatic readings stabilize. This is most noticeable when the instrument is relocated from one extreme environment to another (i.e. from a warm location to a cold location). A period of up to 30 minutes should provide adequate time for stabilization.

Smart Trend Indicators 1

Identify rising, falling or stable readings. The instrument compares each measurement with recent values to provide the current direction of change.



While the absence of an arrow does not necessarily signify stability, it can be taken to mean that particular reading is undergoing little or no change. Slow changes could therefore occur without being noted by an indicator arrow.

PosiTector App

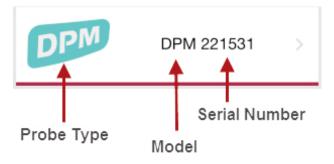
The PosiTector App connects a PosiTector *SmartLink* to your Smart device enabling you to use PosiTector *6000*, *DPM*, *SPG* or *RTR-H* probes on your device without the need for a conventional gage body.

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 datasets, images and notes are all stored in the PosiTector App (on your smart device). The number of stored datasets is only limited by the memory available on your smart device. If the application is removed or a *Menu Reset* (pg 23) is performed, all stored datasets and associated data is permanently erased.

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

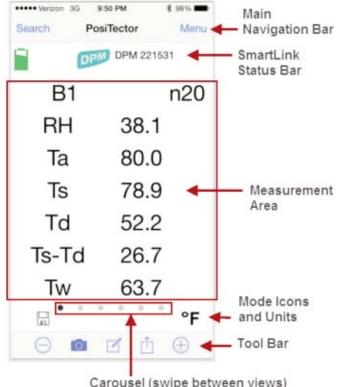
- 1 Power-up the PosiTector *SmartLink* and connected *DPM* probe by pressing the LED button. The button will blink blue.
- 2 Select the PosiTector *SmartLink* App icon on your smart device.
- 3 Select **Continue**. A list of available PosiTector probes (listed by connected probe type and serial number) 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. DPM 221531).

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 2/3 full and connected to a PosiTector *DPM* probe (serial number: 221531).

Measurement Area

Displays measurement (dataset) related information. The example on page 7 shows and environmental dataset. *Memory* is ON and datasets are being stored into Batch 1 (B1).

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 13) and measurement units (°F Fahrenheit).

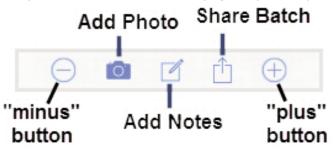
Carousel

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 13), *Dew Point Alarm* (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 (i.e. *Dew Point Alarm* (pg 22), etc.) 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).

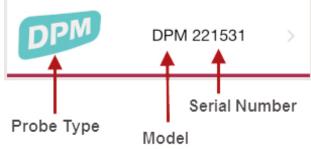
NOTE: Measurement data is not stored within the PosiTector *SmartLink*. All measurement data (datasets, images, notes) is stored within the PosiTector App on your smart device.



Connect a Probe

To connect a probe, slide the plastic probe connector in the direction of the arrow (shown on page 9) 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 DPM Probes

PosiTector *DPM* probes continually measure, calculate and record climatic readings. Two probe models (Built-In and Separate) are offered, as pictured below.



Optionally, the magnetic surface temperature probe can be disconnected from the K-Type thermocouple connector (separate probe models only) and replaced with one of the following **K-Type probes**:

- Hand-held Surface Temperature Probe for spot checking hard-to-reach surfaces
- Self-adhering Surface Temperature Probe sticks to solid materials including aluminum, wood, concrete, etc. Ideal for unattended monitoring.
- Liquid Temperature Probe general purpose probe with stainless steel shaft

CAUTION: To ensure optimal performance of your PosiTector *DPM*, do not obstruct the airflow near the air temperature and humidity sensors. Keep fingers away from the sensor, as body heat can cause incorrect readings. Allow time for the instrument to acclimate (pg 5) and for the readings to stabilize when moving the instrument between different environments. When using the surface temperature probe, do not use excessive downward force, and do not drag it sideways. More probe information is available at *www.defelsko.com/dpm*

Protective Cap

PosiTector *DPM* probes ship with a protective rubber cap (on surface temperature sensor). Remove this cap prior to use. Replace it when the instrument is not in use to protect the probe.

Factory Calibration

Every PosiTector *DPM* probe is factory calibrated and includes a Certificate of Calibration. This factory calibration information is permanently stored within the probe and cannot be adjusted or overwritten by the user.

Certification

PosiTector *DPM* 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.

Menu Operation

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

Main Menu	*国初始世11:157	W.
Memory Setup	Strat	\$\$\$4715 ■ 11:15 AM
Help Exit	SmartLink Info Change Units SmartLink Lock Dew Point Alarm	
	Dew Point Trend Charts Reset Exit	

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

- *Memory* (pg 13)
- **Setup** (pg 21)

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 or shared via email (PDF, CSV). Measurements are date and time-stamped (using date/time from smart device).

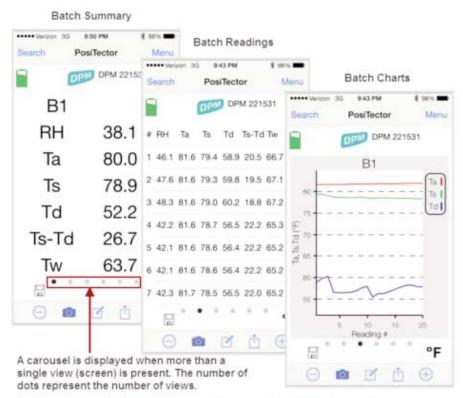
The following options appear within the *Memory* menu. Additional options may appear depending on the connected PosiTector *SmartLink* and probe type.

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. New batches are date-stamped at the time they are created.

Store a dataset into the currently opened batch by pressing the \oplus icon on the display or the LED button on the PosiTector *SmartLink*.

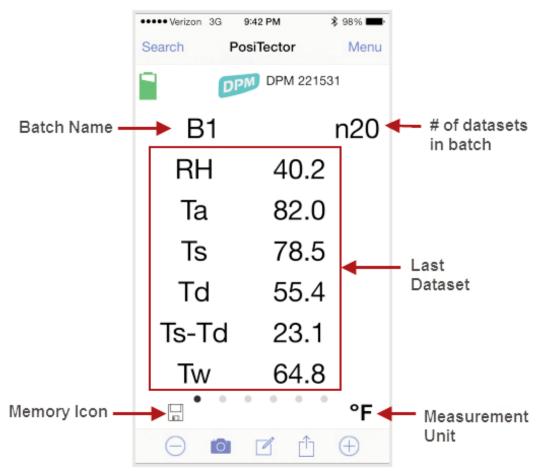
The following screen views (3 of 6 views displayed) are available when a batch is open (*Memory* ON). Swipe your finger horizontally across the screen to switch between views.



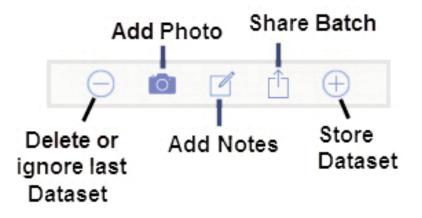
Swipe your finger horizontally accross the screen to switch between views.

Batch Summary View

In the PosiTector *DPM* memory example below, the batch name is B1 and contains 20 datasets.



Use the **Tool bar icons** to add notes and change the batch name (pg 17), store dataset (pg 15) and add an image (pg 16).



Delete or Ignore last reading from the current open batch.

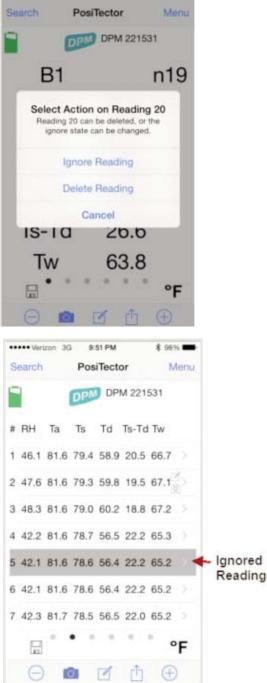
When selected, the following menu appears.

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 18).

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 dataset from the current batch.



**** Verizon 3G

9:49 PM

Cancel exits the menu.

Store Dataset

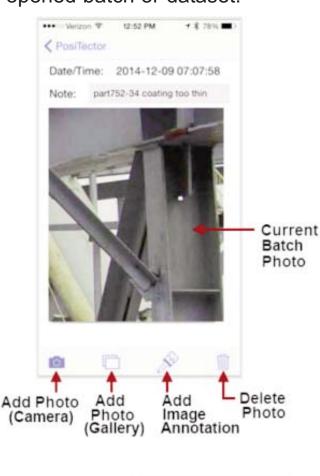
Stores a dataset into the currently opened batch. Alternatively, press the LED button on the PosiTector SmartLink.

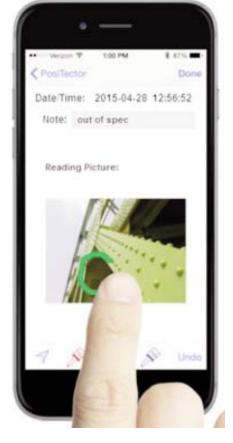
Mathematical Contention of Add Photo to the currently opened batch or dataset.

Batch Photo, Reading Photos and Image Annotations can be included in reports.

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

	1 1 0 106
Memory Menu	
Alignment	= =
Report Header Picture	
Picture)
Height 1.0 in. / 2.5 cm	
Alignment	= =
Report itema	
Information	
Batch Note	
Batch Picture	21.14
Picture Size 3.0 in. / 7.6 cm	
Summary	1000
Readings	
Reading Time	
Reading Adjustment	100
Reading Picture	
Picture Size 1.0 in. / 2.5 cm	
Hide Ignored Readings	
Beading Note	
4 0	0





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.

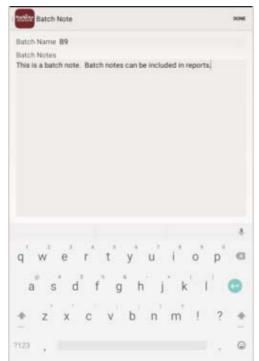
Add Notes to currently opened batch or dataset.

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

Batch names/notes appear on reports.

🕆 Share Batch

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



Cancel PosiTec	tor Export Send	6000	FN 212921	Done	Batch Report
To: DeFelsko Techn	cal	B1	n5		DeFelsko
Ge/Bec, From: tlana	e@deferako.com	50.0 x	4.7 σ	B1 Created: 3214-12	
Subject: PosiTector	Export	46 ↓	58 1	SmartLas SN 7 Prote Type Post Prote S/V 2128	lactor FN
		F	Cal 1	Call Call 1	
		1.4		B1 Summ	
				1.1.1	a i t (Maneri
header.txt	readings.txt	1	7	8	47 - 48 - 19
		Share	Butch	B1 Readin	gs
		Rec	port -		Reading Tana Romani 50 2014-12-11-11-50-08
statistics.txt	batchjson.json	1100	port	2	48 11,50,08 49 11,50,10
SPERIODOSTYC	Datenjaon jaon	Exp	port		18 11,60,12 47 11,60,14
			ncel 🔺		
		1	_	·	1

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 datasets contained in the current batch. New datasets are added to the list instantly as they are taken.

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

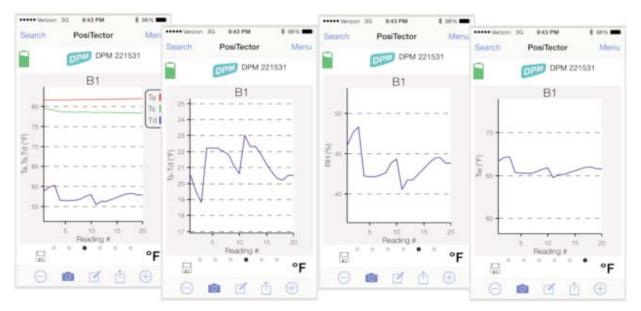
Notes and photos can be displayed in batch reports.

•••	••• Veri	zon 30	9	51 PM		\$ 981	-	
S	earch		Pos	iTecto	or	N	lenu	
5			DPM	DPI	M 221	531		
#	RH	Та	Ts	Td	Ts-Td	Tw		
1	46.1	81.6	79.4	58.9	20.5	66.7		
2	47.6	81.6	79.3	59.8	19.5	67.		- Note and Photo
3	48.3	81.6	79.0	60.2	18.8	67.2	2	attached
4	42.2	81.6	78.7	56.5	22.2	65.3		
5	42.1	81.6	78.6	56.4	22.2	65.2	-	 Ignored reading
6	42.1	81.6	78.6	56.4	22.2	65.2		
7	42.3	81.7	78.5	56.5	22.0	65.2		
		•	•			•	F	
	Θ	1	5	1	rh	Ŧ)	

Batch Chart View

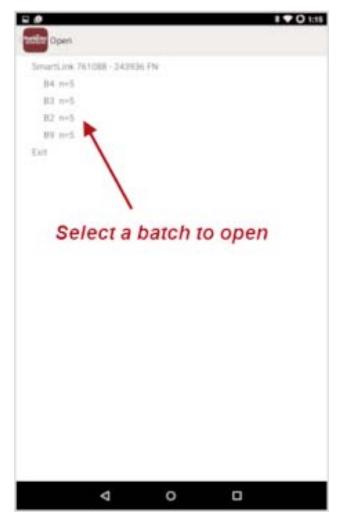
Display x-y charts for datasets contained in the current batch. The charts are instantly updated as measurements are taken.

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



Open

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



Additional datasets 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 dataset (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 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).

• Coold Verizon • 7:37 AM • \$ 100% ■
< Memory Delete Batches
SmartLink 761088 - FN 212921
B3 n=7 Selected for
B2 n=0 deletion
terry n=7
Delete All: 212921
Delete all batches for all probes
Exit
Cancel OK

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).

Memory Menu		I ♥ O 184
Alignment		
Report Header Picture		
Picture		2
Height 1.0 M. / 2.5 cm		
Alignment		
Report Items.		
Information		
Batch Note		
Batch Picture		
Picture Size 3.0 in. / 7.6 cm		
Summary		
Readings		
Reading Time		
Reading Adjustment		
Reading Picture		
Picture Size 1.0 m. / 2.5 cm		
Hide Ignored Readings		
Beading Note		
4	0	

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, Dropbox or other applications on your device.



Setup Menu

SmartLink Info

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



Change Units

Converts the display from Celsius (°C) to Fahrenheit (°F) or vice versa. Stored datasets in memory are not converted.

Switching units closes Memory.

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.



Key icon will appear on search screen to indicate PosiTector SmartLink is locked to your PosiTector App.

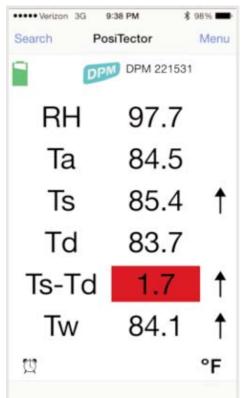


range) will not have access to your PosiTector SmartLink

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).

Dew Point Alarm

When toggled ON, user is visibly alerted when the surface temperature is less than 3°C (5°F) above the dew point temperature. The Ts-Td value will display RED (as shown here) when conditions may be unsuitable for painting.



The *Dew Point Alarm* icon is displayed. According to ISO 8502-4 and ASTM D3276, steel surfaces should generally be 3°C (5°F) above the dew point when painting.

The *Dew Point Alarm* can be used in conjunction with Memory mode (pg 13).

Reset

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

There are two available **Reset** options:

Menu Reset and PosiTector SmartLink (LED Button) Reset

Menu Reset (*PosiTector App*)

Sele (pg 2	ect Reset from the Setup menu 21).	Settings are returned to the following:
	following occurs after a warning	<i>Memory</i> = OFF
mes	sage:	<i>Units</i> = Celsius
•	All stored batches, datasets, images, notes, annotations are deleted.	Dew Point Alarm = OFF
•	All calibration settings (adjustments) for all probes are cleared and restored back to factory settings.	<i>Report Configuration</i> <i>Settings</i> = restored to default
	(provided PosiTector <i>SmartLink</i> is ON and connected to App). To keep calibration settings, power off the PosiTector <i>SmartLink</i> prior to performing this <i>Menu Reset</i> .	

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) for all probes are cleared and restored back to factory settings.

Settings are returned	to
the following:	

Units = Celsius

Dew Point Alarm = OFF

SmartLink Lock = OFF



Troubleshooting

When the surface temperature probe is not on a surface, Air Temperature and Surface Temperature appear to be different

Under normal conditions with the surface probe in air Ta and Ts should be within the combined tolerance of each sensor (typically 1°C each). It is possible for the difference to be larger if the surface probe has recently been in contact with surfaces that are at a different temperature than air.

RH value is slow to stabilize

If the probe is exposed to very low humidity for an extended time period and then placed in a high humidity environment, the displayed Relative Humidity (RH) may appear to respond slowly. Allow the probe to stabilize 30 minutes for a change of RH greater than 50%. It may take longer if the probe was left at low RH for several months. To increase response time soak the sensor in a damp face cloth overnight to recondition the RH sensor.

Surface Temperature reads much higher than expected

The probe tip may be dirty or damaged. Clean the probe tip by soaking in water or solvent. If Ts continues to read high then return the probe for service.

Surface temperature value does not agree with expected surface temperature or surface temperature probe is slow to respond

In some cases the surface being measured is very rough and a good thermal connection from the probe tip to the surface is not possible. If possible place a small drop of water on the surface and then place the probe tip into the water drop. Quick and accurate results can be obtained in this manner.

PosiTector SmartLink not displaying on Search screen.

Ensure PosiTector *SmartLink* is powered-up (pg 10), 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.

Camera does not function when attempting to add photo

Verify adequate privacy permissions are set for the PosiTector App.

