PosiTector® *IRT*
Infrared Thermometer
Non-contact surface temperature measurement

ε=0.95

21.7 ↓

°C

DeFelsko®
Certificate of Calibration
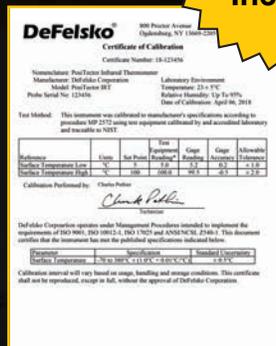
Award Winning Compatibility!

- *Coating Thickness*
- *Surface Profile*
- *Environmental Conditions*
- *Shore Hardness*
- *Salt Contamination*
- *Ultrasonic Wall Thickness*

Add the new PosiTector IRT probe to enhance any PosiTector Inspection Kit

IRT

DeFelsko®
The Measure of Quality

Available on the App Store

WiFi

PosiTector® *IRT*
Infrared Thermometer

All Gages Feature...

Simple

- Surface temperature is constantly updated and displayed simultaneously
- Button activated laser pointer for simple, accurate targeting
- Enhanced one-handed menu navigation
- RESET feature instantly restores factory settings

Durable

- Solvent, acid, oil, water and dust resistant—weatherproof
- Non-contact sensor won't get caught or worn
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on body AND probe

Accurate

- Certificate of Calibration showing traceability to NIST included (Long Form)
- Fast response precision sensor provides accurate, repeatable readings
- 5.7:1 distance to spot ratio—ideal for measuring large areas
- Smart Trend™ indicators identify rising, falling or stable readings

Versatile

- PosiTector body accepts all PosiTector IRT, DPM, 6000, 200, RTR, SPG, SST, SHD, BHI and UTG probes easily converting from an infrared thermometer, to a dew point meter, coating thickness gage, surface profile gage, soluble salt tester, hardness tester or ultrasonic wall thickness gage
- Selectable emissivity values - choose from 7 preset material options, set a custom emissivity value, or adjust to a known temperature
- High contrast LCD with backlit display
- Auto rotating display with lock to prevent unintended rotations
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful

- Scanning Statistics Mode —continually displays/updates average, standard deviation, min/max surface temperature and number of readings while measuring one reading per second
- Screen Capture—save screen images for record keeping and review
- Pause function allows readings to be manually recorded
- HiLo alarm audibly and visibly alerts when readings exceed user-specified limits
- Sealed USB port for fast, simple connection to a PC and to supply continuous power. USB cable included.
- PosiSoft USB Drive—stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- Every stored measurement is date and time stamped
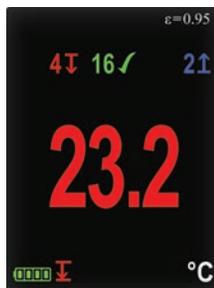- Includes PosiSoft suite of solutions for analyzing and reporting data

Two Powerful Modes
to quickly analyze large areas

- *Scanning Statistics Mode* records one reading per second
- *HiLo Alarm* compares results to user-specified limits and alerts the user when readings exceed these limits

Scanning Statisitics Mode *HiLo Alarm*

Standard Models

Includes ALL features as shown on left plus...

- Storage of 250 readings per probe—stored readings can be viewed or downloaded

Advanced Models

Includes ALL features as shown on left plus...

- Storage of 100,000 readings from multiple probes in up to 1,000 batches
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- Bluetooth **4.0 Technology** for data transfer to a mobile device running the PosiTector App or optional portable printer. **BLE API** available for integration into third-party software.
- Onscreen Batch Annotation—add notes, change batch names and more with built-in QWERTY keyboard
- Store thickness, profile, environmental, salt contamination, hardness and wall thickness measurements in individual batches
- Trend Charts graph readings in real-time

For a complete comparison of the Standard and Advanced features visit www.defelsko.com/irt

Specifications	Range	Accuracy	Resolution
Temperature Range	−70˚ to 380˚ C	± 1˚C + 1%*	0.1˚ C
	−94˚ to 716˚ F		0.1˚ F

*At 23˚ C ambient

Laser Pointer	Class 2 < 1mW
Distance to Spot Ratio (D:S)	5.7:1
Emissivity	Adjustable
Response Time	<500 ms (95% response)
Spectral Response	2 - 14 µm

ALL GAGES COME COMPLETE with IR temperature probe, protective rubber holster with belt clip, wrist strap, 3 AAA batteries, instructions, nylon carrying case with shoulder strap, protective lens shield, Long Form Certificate of Calibration traceable to NIST, USB cable, two year warranty.

SIZE: 137 x 61 x 31 mm (5.4" x 2.4" x 1.1")
WEIGHT: 140 g (4.9 oz.) without batteries

Ordering Guide	
Standard gage body and probe	IRT1
Advanced gage body and probe	IRT3
Probe Only	PRBIRT

LASER LIGHT DO NOT STARE INTO BEAM
Class 2 laser product
652 nm < 1mW CW
EN/IEC 60825-1-2014 (2007 USA)

DeFelsko®
Inspection Instruments

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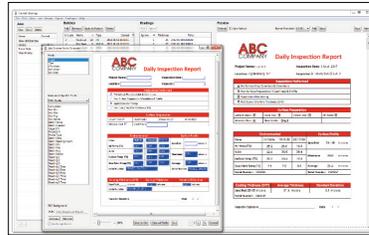
Made in U.S.A.

PosiSoft® Suite of Software

Four FREE and unique ways to view and report your PosiTector and PosiTest data

PosiSoft Desktop — PC/Mac

Powerful desktop software for downloading, viewing, printing and archiving measurement data. No internet connection required.

- Import readings directly from the gage via USB or from legacy PosiSoft desktop versions
- Synchronize measurement data including readings, notes and pictures to and from PosiSoft.net
- Import/Export Templates and Jobs to share with other users
- Import PDF forms and overlay *Custom Fields* for automatic population of inspection and measurement data
- Report preview automatically refreshes as changes are made

PosiTector App — Mobile

Mobile app connects PosiTector Advanced instruments, the PosiTector SmartLink and the PosiTest AT-A to your *iOS* or *Android* smart device.

- Auto pairing Bluetooth BLE connection
- Automatically generate user-formatted reports and share via email, text, cloud storage services like Dropbox, and more
- Export readings to PosiSoft Desktop or synchronize readings to and from PosiSoft.net for further reporting and archival options

Prompted Batch Mode

Create pre-defined batches with onscreen text and image prompts for each reading and upload to PosiTector 6000 gages (*Advanced models only*).

- Ideal for ensuring a consistent measurement pattern for repetitive jobs or when specific measurement locations are required
- Create and store multiple templates for different jobs

PosiSoft Custom PDF Report Generator

Easily create reports from your measurement data in seconds.

featured on
PosiSoft Desktop
PosiSoft.net
PosiTector App

- Include inspection information such as on-site pictures, screen captures, notes and more to communicate important details
- Create and save multiple custom layouts as templates – insert cover pages, add logos/images, and select font and point size
- Select the information to include for each product type – charts, histograms, readings, time stamps and more
- Compile multi-batch reports from one or more probes and instrument types
- Export readings as comma separated value (.CSV) files which can easily be imported into Excel and other supporting applications
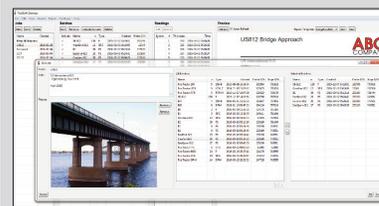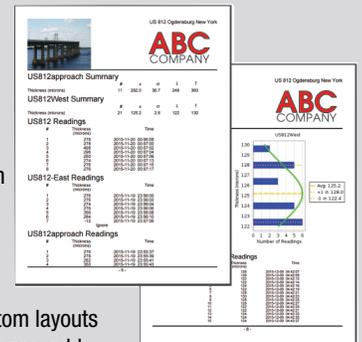
Jobs feature consolidates batches into groups to keep measurement data organized and to quickly create multi-batch reports (not available on PosiTector App)

PosiSoft.net — Web-based

A web-based application offering secure centralized management of readings. Access your data from any web-connected device.

- Synchronize data when connected via USB or WiFi
- Synchronize measurement data including readings, notes and pictures with PosiSoft Desktop and PosiTector App
- Securely store measurement data in the cloud and share with authorized users via a secure login
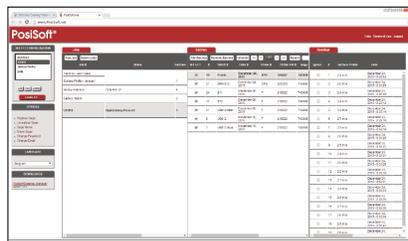
Jobs   Batches   Readings

PosiSoft USB Drive — Gage Based
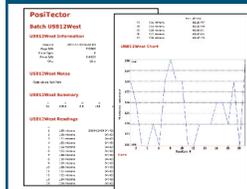
A simple gage interface to retrieve data in a manner similar to USB flash drives, cameras, or digital audio players. No software to install or internet connection required.

- View and print readings and graphs using universal PC/Mac web browsers and file explorers
- Measurement data can be printed quickly from a formatted HTML report or exported in .CSV format for further analysis in spreadsheets
- Simple file management - Copy and paste measurement data from the PosiTector to a local folder on your computer, network folder or cloud drive
- Access stored screen captures (snapshots) of the PosiTector display

PosiTector and PosiTest AT-A instruments can integrate with third-party software, drones, ROVs, PLCs, and robotic devices using several industry-standard communication protocols.

PosiTector Developer Resources
including Bluetooth 4.0, WiFi, USB Keyboard, and USB Serial

DeFelsko®
The Measure of Quality

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Made in U.S.A.