TQC sheen

TQC Sheen Defelsko PosiTector RTR Tape Reader – Standard and Advanced Models

INDUSTRIAL PHYSICS

Protecting
Product Integrity

The TQC Sheen DeFelsko PosiTector RTR is a rugged digital micrometer designed for precise peak-to-valley surface profile measurement using replica tape. Built to meet international standards and equipped with advanced digital capabilities, it's the ideal solution for surface preparation professionals working in both field and laboratory settings.

Reliable and Accurate Surface Profile Measurement

The PosiTector RTR enables accurate measurement of blasted steel or textured surfaces by digitally analyzing Testex® Press-O-Film® replica tape. It provides critical surface roughness data, ensuring that the substrate is properly prepared for coating application. With IP65-rated durability and a user-friendly 2.8" color touchscreen, it delivers consistent results in even the most demanding environments.

Both the Standard (RTR H1) and Advanced (RTR H3) models come with USB, WiFi, and Bluetooth connectivity, making data transfer, storage, and integration with software or third-party platforms seamless and efficient.

Easy Operation and Digital Connectivity

Engineered for fast setup and simple use, the PosiTector RTR eliminates the need for frequent calibration. Users can measure surface profile in minutes by applying and burnishing replica tape, inserting it into the device, and instantly viewing peak-to-valley readings on the screen.

Whether performing one-off spot checks or high-volume inspections, users benefit from robust digital features like on-screen batch management, graphing, keyboard entry, and synchronization with PosiSoft.net and mobile apps. Advanced users can also take advantage of API integration with PLCs or automated systems.

How to Use the PosiTector RTR

1. Prepare the surface using the supplied cleaning putty to remove dust and debris.
2. Burnish a piece of replica tape onto the surface using the steel tool provided.
3. Measure the tape by placing it into the RTR gauge to calculate surface profile height.
4. View & record the results digitally—store them on the device or sync with your preferred data management system.

Why Surface Profile Measurement Matters

Before use, soak the sensor in tap water or electrode storage solution for at least 30 minutes. Avoid de-ionized water, which can damage the sensor and impact measurement accuracy.

Technical Specifications:

Measurement Range:	20 to 115 µm (0. to 4.5 mils)
Peak Height Accuracy:	5 µm (0.2 mils)
Peak Height Resolution:	1 µm (0.1 mils)
Anvil Diameter:	.35 mm (0.25 in)
Anvil Pressure:	1.1 (110 gram-force)
Size (gage body only):	12 25.4 mm
Weight (gage body only):	13 g (ithout batteries)
Display:	2. color touchscreen
Enclosure Rating:	IP 5 (dust and ater resistant)
Battery Life:	20 hours ith 3 AAA batteries
Connectivity:	USB, Bluetooth 4.0, WiFi
Data Storage:	
– **Standard:**	1,000 readings
– **Advanced:**	250,000 readings in 1,000 batches

INDUSTRIAL PHYSICS

TQC sheen

Features & Benefits:

- Measures surface profile height using Testex® replica tape
- Conforms to ISO 8503-5, ASTM D4417 Method C, NACE RP0287, SSPC-PA17
- No calibration required for most applications
- 2.8" color touchscreen with intuitive menu navigation
- Rugged IP65-rated body for industrial environments
- Ergonomic grip and protective rubber holster
- Switchable units: mils/microns
- Bluetooth and WiFi connectivity
- Compatible with PosiTector SmartLink and mobile apps
- Up to 20+ hours of battery life (AAA batteries)
- Long form Certificate of Calibration included
- **Standard model adds:**
  - Stores 1,000 readings per probe
- **Advanced model adds:**
  - Stores 250,000 readings in 1,000 batches
  - Live graphing of data
  - Touchscreen keyboard for batch notes
  - Integration with third-party systems, printers, and mobile apps

Ordering Information:

Catalog Number	Article Description
LD5430	TQC Sheen Defelsko PosiTector RTR Tape Reader – Standard
LD5431	TQC Sheen Defelsko PosiTector RTR Tape Reader – Advanced

Feature	Standard Model (RTR H1)	Advanced Model (RTR H3)
Data Storage	1,000 readings per probe	250,000 readings in up to 1,000 batches
Batch Management		Create, rename, and organize batches on-screen
Graphing		Live graphing of measurement data
Touchscreen Keyboard		Yes – for notes, batch names, etc.
Connectivity	USB, WiFi, Bluetooth 4.0	USB, WiFi, Bluetooth 4.0 (BLE API for integration)
3rd Party Integration (e.g., PLCs, drones)		Yes – supports industry-standard protocols
Screen Capture		Save up to 100 screen images
Software Synchronization	Basic USB transfer	WiFi sync with PosiSoft.net + software updates
Mobile App Compatibility	Yes (via SmartLink)	Yes (with enhanced Bluetooth options)
Ideal For	Routine inspections and field measurements	High-volume inspections, advanced reporting, and digital integration

Contact Details

web. .industrialphysics.com

email. info industrialphysics.com

INDUSTRIAL PHYSICS

TQC sheen