

# PosiTector® **UTG**

*Ultrasonic Thickness Gage*

Measures the wall thickness of materials such as steel, plastic and more



**UTG M Thru-Paint models** measure the metal thickness of a painted structure without having to remove the coating.

*UTG C3 Advanced model shown with Corrosion Probe*



# PosiTector® Ultrasonic Thickness Gages

## All Gages Feature...

### Simple

- Enhanced one-handed menu navigation
- Pre-programmed velocities—simply select from a list of common materials or enter your own with ease
- **SmartCouple™** mode eliminates unintentional decoupling—ensures continuous measurements while measuring on scaled or pitted surfaces—ideal for analyzing large areas using multiple passes
- Flashing display—ideal in a noisy environment
- RESET feature instantly restores factory settings

### Durable

- Solvent, acid, oil, water and dust resistant—weatherproof
- Impact resistant lens
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on body AND probe

### Accurate

- Precision transducers provide fast, accurate readings
- Certificate of Calibration showing traceability to NIST included
- Conforms to national and international standards including ASTM E797
- Built-in temperature compensation ensures measurement accuracy

### Versatile

- Universal Gage Body accepts all PosiTector UTG, 6000, DPM and SPG probes
- Flip display enables right-side-up viewing
- Selectable display languages
- Hi contrast backlit display for bright or dark environments
- Single or two point adjustment
- Inch/mm switchable
- Uses alkaline or rechargeable batteries (built-in charger)

### Powerful

- Min Scan mode—measurement rate of up to 20 readings per second with onscreen min/max for quick inspection over a large area
- Continually displays/updates average, standard deviation, min/max thickness and number of readings while measuring
- HiLo alarm audibly and visibly alerts when measurements exceed user-specified limits
- Screen Capture—record and save screen images into USB flash memory for record keeping and review
- USB port for fast, simple connection to a PC and to supply continuous power. USB cable included
- Every stored measurement is date and time stamped
- Software updates via web keep your gage current
- Connects to PosiTector.net (see next page)

**USB mass storage—**  
stored readings  
and graphs can be  
accessed using  
universal PC/Mac  
web browsers  
or file explorers.  
No software required



## Gage Selection

### Select Standard or Advanced Features

#### Standard Models

**Includes ALL features as shown on left plus...**

- Monochrome display with transfective technology enhances sunlight readability
- Storage of 250 readings—stored readings can be viewed or downloaded

#### Advanced Models

**Includes ALL features as shown on left plus...**

- Hi contrast reversible color LCD
- Storage of 100,000 readings in up to 1,000 batches and sub-batches
- Store thickness, profile and environmental measurements in individual batches
- Onscreen help, real time graphing, picture prompting, and more...
- Onscreen batch annotation—add notes and change batch names with the built-in keyboard
- **NEW!** WiFi technology wirelessly synchronizes with PosiTector.net, downloads software updates, and connects to mobile devices for expanded functionality
- Data transfer via USB to a PC or via **Bluetooth®** Wireless Technology
- A-Scan with adjustable Gain and screen capture
- B-Scan—displays a cross sectional profile of the test material



**UTG C1**  
Standard  
model

### Select from 2 Probe Styles

#### UTG C – Corrosion Probe

Measures the wall thickness of materials such as steel, plastic and more. Ideal for measuring the effects of corrosion or erosion on tanks, pipes, or any structure where access is limited to one side

- 5 MHz dual element transducer with durable PEEK probe tip
- Automatic V-Path compensation for thin materials



**Stainless steel probes**  
with knurled  
fingergrasp

#### UTG M – Multiple-Echo Probe

Features Thru-Paint capability to quickly and accurately measure the metal thickness of a painted structure without having to remove the coating. The most accurate method to measure the remaining wall thickness of a painted structure because it automatically disregards the coating, lowering inspection time and expense. Also ideal for measuring on sandblasted materials or other applications requiring a durable wear face.

- 5 MHz contact probe with wear resistant Alumina probe tip
- **Multiple Echo** technique averages 3 or more echoes for accurate and reliable readings
- Toggle easily between  
—**Multiple Echo** mode to eliminate coating thickness and...  
—**Single Echo** mode to detect pits and flaws, and to increase the measurement range





## Tough **NEW** Features

Sealed USB port  
for communicating  
with a PC or Mac

Water and dust  
resistant—weatherproof

Hi Resolution Color LCD

**Advanced model  
shown in B-Scan**

Scratch, solvent, and  
impact resistant lens

Solvent, acid, oil resistant,  
hi-grade, industrial housing

Multi-function  
navigation button

Shock-absorbing,  
protective rubber holster

Zero Plate

Quality high-flex cable  
and strain relief



**UTG M Multiple Echo Thru-Paint** probe measures the thickness of a painted structure without having to remove the coating.



**UTG C3  
Advanced  
model**

Measure the  
thickness of metal,  
plastics and more



Visit [www.defelsko.com/applications.htm](http://www.defelsko.com/applications.htm) to view  
**Inspection Application Notes**

**PosiTector.net** by DeFelsko

Home My Gages What's New My Account

where your gage meets the cloud™

**PosiTector.net**

**Included web-based application offers secure centralized management of measurement data**

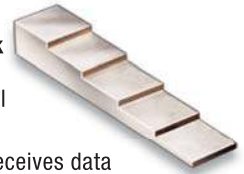
- Synchronize measurement data when connected via USB or WiFi (Advanced models only)— readings are uploaded to a secure server; images and batch notes are downloaded to your instrument
- Manipulate uploaded data using a standard internet web browser from any location in the world — jobsite or head office
- Generate reports and graphs with annotation and user selected images
- Share measurement data with authorized users via a secure login from any computer and most web enabled devices
- Export data to XML and text files
- Visit [www.defelsko.com/PosiTectorNET](http://www.defelsko.com/PosiTectorNET) for a demonstration

## PosiTector<sup>UTG</sup> ORDERING GUIDE

Probe Style	UTG C Corrosion Probe	UTG M Multiple Echo Probe	
Standard Model	UTG C1	UTG M1	
Advanced Model	UTG C3	UTG M3	
Probe Type	5 MHz Dual Element	5 MHz Contact	
Mode	Single Echo	Single Echo	Multiple Echo
Measurement Range*	0.040" to 5.000" 1.00 to 125.00 mm	0.100" to 5.000" 2.50 to 125.00 mm	0.100" to 2.500" 2.50 to 60.00 mm
Thru-Paint Capability	no	no	yes
Measurement Rate – Normal	6 readings/sec	4 readings/sec	
Measurement Rate – Scan	20 readings/sec	4 readings/sec	
Resolution	0.001" 0.01 mm	0.001" 0.01 mm	
Accuracy	±0.001" ±0.03 mm	±0.001" ±0.03 mm	

## Accessories

- **Calibration Test Block** to fulfill both ISO and in-house quality control requirements
- **Bluetooth™ Printer** receives data from Advanced models



- **Rechargeable Batteries**—a set of eneloop NiMH AAA batteries
- **AC Power Kit** for continuous operation or battery charging—works in any country
- **Protective Lens Shields** protect the display from overspray and debris

## Universal Gage Body

- Universal Gage Body accepts all PosiTector **UTG**, **6000**, **SPG** and **DPM** probes



Coating Thickness



Surface Profile



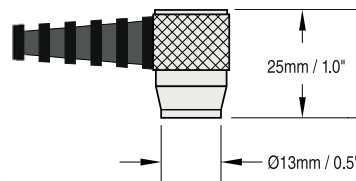
Environmental



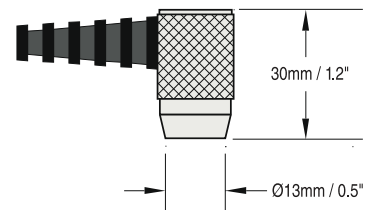
Ultrasonic Wall Thickness

## Probe Details

### UTG C – CORROSION



### UTG M – MULTIPLE ECHO



**ALL GAGES COME COMPLETE** with body and probe, couplant, protective rubber holster, belt clip, wrist strap, 3 AAA alkaline batteries, instructions, nylon carrying case with shoulder strap, protective lens shield, Long Form Certificate of Calibration traceable to NIST, USB cable, PosiTector.net account, two (2) year warranty.

**SIZE:** 146 x 61 x 28 mm (5.75" x 2.4" x 1.1")

**WEIGHT:** 140 g (4.9 oz.) without batteries

Conforms to ASTM E797