



Wall Thickness

PosiTector UTG

EMIN
Testing & Measuring Everything

DeFelsko[®]
The Measure of Quality

Why Measure Wall Thickness?



It is often critical to measure the effects of corrosion or erosion on tanks, pipes or any structure where access is limited to one side



PosiTector UTG Models available

- UTG C-Measures the wall thickness such as steel, plastic, and more
- UTG CX-Same capabilities as UTG-C but with a braided stainless steel cable
- UTG M-Features Thru-Paint capability to quickly and accurately measure the metal thickness of a painted structure without removing the paint
 - Also ideal for applications that require a more durable wear face

UTG C Probe

- Stainless steel probe with knurled fingerrip
- Automatic V-Path compensation for thin materials
- 5 MHz dual element transducer



UTG M Probe

- User selectable Single Echo and Multiple Echo techniques
- Stainless steel probe with knurled fingerrip
- 5 MHz contact probe with wear resistant Alumina probe tip



PosiTector *UTG CX*

Xtreme Corrosion Probe

Braided Stainless Steel Cable
for Demanding Applications

- Same accuracy and ease-of-use as PosiTector UTG C Probe



PosiTector *UTG* CA

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NEW



Integral Probe

Ideal for one-handed operation.

- Same accuracy and ease-of-use as PosiTector UTG C Probe with the additional benefit of a one-handed device.

PosiTector *UTG CLF*

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Low Frequency Probe

Designed for measuring
attenuative materials such as
cast iron

- Proprietary algorithm distinguishes back wall reflections from grain noise (reflections) found in cast materials



PosiTector *UTG P*

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NEW



Precision Probe

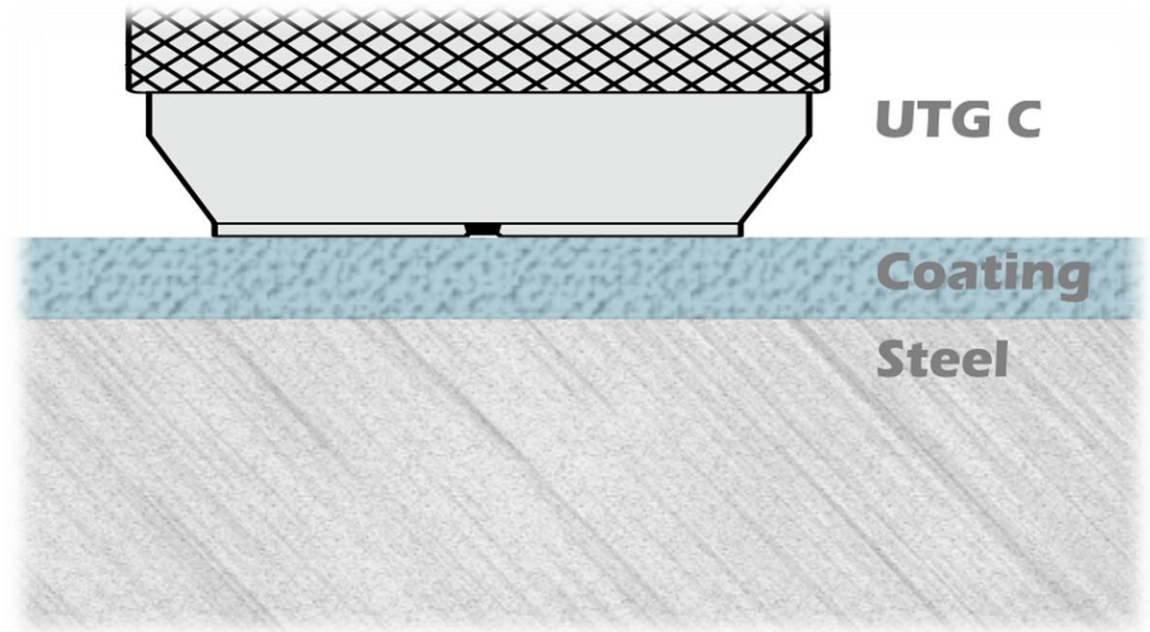
Designed for high resolution measurements and thin materials

- Automatic Multi-Echo mode ensures the best accuracy on thin metals.
- Ideal for thru-paint applications to quickly and accurately measure the metal thickness of a painted structure without having to remove the coating

Technical Note: Influence of Coatings

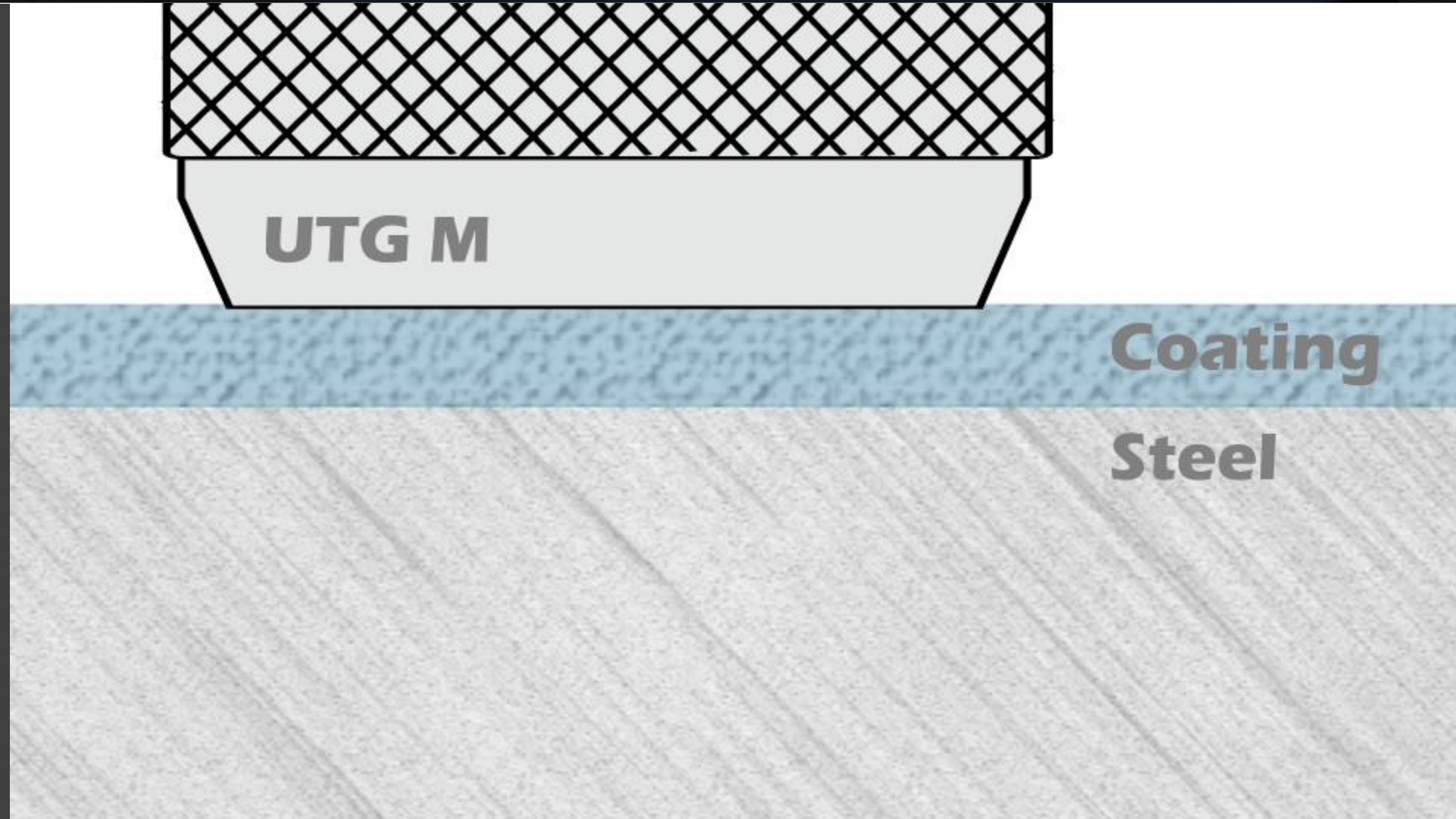
When using the *UTG C* or *UTG M* in Single Echo mode, it is important to remove the coating prior to measurement

- Compared to metal, polymer coatings have a much slower acoustic velocity- disproportionately affecting the reading



Technical Note: Influence of Coatings

The *UTG M* and *UTG P* listen for multiple echoes. The distance between subsequent echoes is not affected by the coating



PosiTector *UTG* Ordering Guide

Ultrasonic Wall Thickness Probes

Application	Corrosion		Corrosion Xtreme	Low Frequency	Multiple Echo		Precision	
Model	UTG C	NEW UTG CA	UTG CX	NEW UTG CLF	UTG M		NEW	UTG P
Probe Type	5 MHz Dual Element			2.25 MHz Dual Element	5 MHz Contact		15 MHz Single Element Delay Line	
Mode	Single Echo				Single Echo	Multiple Echo	Steel	Plastic
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	0.008" to 0.475" 0.2 to 12.0 mm	0.005" to 0.175" 0.125 to 4.500 mm
Thru-Paint Capability	No				Yes			
Resolution	0.001" 0.01 mm				0.001" 0.01 mm		0.0001" 0.002 mm	
Accuracy	± 0.001" ± 0.03 mm				± 0.001" ± 0.03 mm		± 0.0004" ± 0.01 mm	

* Measurement range is for carbon steel and depends upon surface condition, temperature and material.

Competitive Advantages



- High Quality transducers manufactured by DeFelsko in the USA, at a much lower cost than competitors
- Min Scan mode- measure over 20 readings/sec with onscreen min/max
 - ✓ Smart Couple™- eliminates unintentional decoupling- stops recording measurements when probe isn't coupled
- A-Scan and B-Scan for advanced analysis (Advanced models only)

PosiTector platform

- Fully interchangeable probes
- Often, competitive 'interchangeable' probes require specific body models
- Free software, and USB, WiFi, and Bluetooth

Included Certificate of Calibration Traceable to NIST

- More than a 'Certificate of Accuracy'- contains measurements from the probe on traceable standards
- An extra charge (and delay) from most competitors

Full two year warranty on body **and probe**

- Many competitors offer a much shorter warranty on the probe- the most important part

DeFelsko service- quick shipping, recalibration, and repair