

# T-SCAN 100

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Handheld Ultrasonic Thickness Gauge used for measuring the thickness of non coated materials.



The Silverwing T-Scan 100 is a precision Ultrasonic Micrometer that can be used to make reliable measurements or scan a length of material for the thinnest point. Based on the same operating principles as SONAR, the T-Scan is capable of measuring the thickness of various materials with accuracy as high as  $\pm 0.001$  inches, or  $\pm 0.01$  millimetres. The principle advantage of ultrasonic measurement over traditional methods is that ultrasonic measurements can be performed with access to only one side of the material being measured. The T-Scan's backlit display is easy to read, even in dim light, and the unit operates for up to 200 hours on a single set of batteries.

The T-Scan has the ability to field calibrate on the fly and offers extreme flexibility and accuracy to calibrate to a variety of materials instantly. Simply tell the T-Scan one known thickness point located on the test material, and the T-Scan will calculate the material type for you. The T-Scan is also equipped with a two point calibration option, providing the user with extreme accuracy. Another special feature of the T-Scan is the high speed scan mode. In this mode, the T-Scan takes 16 readings per second rather than 4 readings per second in standard measurement mode. The readings are viewable while scanning. Simply remove the transducer from the area being tested and the T-Scan will display the minimum thickness in the area scanned.

#### Applications:

- Corrosion & Pitting
- Tanks
- Glass
- Tube & Pipe
- Boilers
- Variety of Applications



#### Physical

Weight:  
10 ounces  
285 gram

Size:  
2.5 W x 4.75 H x 1.25 D inches  
63.5 W x 120.7 H x 31.8 D mm

Operating Temperature:  
-20 to 120F (-20 to 50C)

Case:  
Extruded aluminum body / nickel plated aluminum end caps.

Resistant to impact and environmentally sealed.

Keypad:  
Sealed membrane that is resistant to both water and petroleum products.

Six tactile-feedback keys.

Transducer:  
Dual element (transmit and receive).

1 to 10 MHz frequency range.

Locking quick disconnect Lemo connectors.

4 foot cable.

Custom transducers available for special applications.

#### Power Source

Two 1.5V alkaline or 1.2V NiCad AA cells.  
Typically operates for 200 hours on alkaline and 130 hours on NiCad.

Display:  
Multi-function 4.5 digit liquid crystal display with 0.500 inch numerals, backlit for use in poor light conditions. Measurements displayed in inches, inches/microsecond, millimeters, and meters/second.  
Bar graph indicates stability or reading.  
Certification:  
Factory calibration traceable to national standards.  
Warranty:  
1 year limited.

#### Measuring

Range:  
Measures from 0.025 to 19.999 inches (0.63 to 199.99 millimeters) switch to select English or metric units.  
Resolution:  
0.001 inch (0.01 millimeter)  
Velocity Range:  
.0492 to .3937 in/m s  
1250 to 10,000 meters/sec  
Built-in:  
Stainless steel reference disk for probe zeroing.  
Four readings per second for single point measurements or 16 per second in SCAN mode.  
Single and Two point calibration option included.

