



## ***UTG ULTRASONIC THICKNESS GAUGE***

- 100 hours operation
- Accurate to +0.01 inch
- Auto Power down facility
- Rugged NEMA 4X enclosure
- Pre-calibrated for 10 pipe materials

The UTG ultrasonic thickness gauge is an ideal companion to the Thermo Polysonics range of ultrasonic liquid flowmeters. The instrument provides a simple and rapid means of measuring the thickness of pipes typically found in process and water treatment plants.

The UTG offers the ultimate in ease of operation. Press the "ON" button, apply coupling compound to the area to be measured, place the probe on the surface and read the LCD screen. To simplify the field calibration, a test block is mounted to the front panel and is always available for reference thus insuring correct operation of the instrument and probe. The UTG features the additional facility of 10 preset calibration programs for rapid selection of the most commonly found pipe materials. Selection of these pre-programmed materials is accomplished by pressing the "MAT" button. The UTG also incorporates a "ZERO" facility.

The electronic microcircuitry of the instrument is housed in a rigid, hermetically sealed enclosure, with integral front panel membrane. A permanently attached cable is connected to the rugged, stainless steel housing of the probe via a flexible fitting which minimizes the risk of cable breakage. The cable is further protected by an external sheath and connects the instrument via an industrial standard plug.

In addition to being a productive tool for use with Thermo Polysonics ultrasonic flowmeters, the UTG can be used with a wide range of other applications such as measurement of abrasion wear and corrosion rates. It also provides a simple and cost effective way to comply with statutory requirements and help prevent costly unscheduled maintenance.

**General Specifications:**

**Accuracy:** ±0.01 in. (±0.1) ±1 digit or 1% (whichever is greater)  
**Range:** 0.01 to 3.99 in. (1.5 to 99.99mm)  
**Resolution:** 0.004 in (0.1 mm)  
**Power:** 2 x AA Alkaline cells  
**Battery Life:** Approximately 100 hours continuous use  
**Low Battery:** Low battery warning displayed when approx. 10 hours continuous use remains available  
**Auto Power Off:** Automatic power off 60 seconds after latest use  
**Display:** 4 digit LCD  
**Front Panel:** Front panel membrane with key functions (i) ON (ii) ZERO facility (iii) Material program selection from 10 pre-sets  
**Display Retention:** 5 seconds from probe lift off  
**Temperature Range:** Operation: +22° to +130°F (-5° to +55°C)  
Storage: -4° to +160°F (-20° to +70°C)

**Dimensions (HxWxD):** 5.9 x 3.2 x 1.3 in.

151 x 82 x 33mm

**Weight:** 0.64 lbs. (280g)

**Environmental**

**Protection:** Rigid injection molded casing with front panel membrane  
Sealed to NEMA 4X (IP65)  
**Probe:** Standard: UTG 25, 5MHz probe with integral lead connected to stainless steel probe housing via a flexible reinforced cable

**Pre-set Material**

**Programs:** Selectable via front panel MAT key:  
Pr0 Carbon Steel  
Pr1 Stainless Steel  
Pr2 Cast Iron Flake  
Pr3 Cast Iron SG  
Pr4 Ductile Iron  
Pr5 Copper  
Pr6 PVC  
Pr7 Aluminum  
Pr8 Brass (70/30)  
Pr9 Polypropylene

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