

# 3813 Coating Thickness Gage

### Automatically Detects Ferrous or Non-Ferrous Substrate

The Starrett 3813 is a state-of-the-art coating thickness gage that utilizes the characteristics of both eddy current and magnetic induction to perform two types of thickness calculation.

The gage uses an integrated probe to automatically determine whether the substrate is ferrous or non-ferrous. Then, it either detects the thickness of non-magnetic coating on a magnetic substrate (ferrous) or the insulating coating on a non-magnetic conductive substrate (non-ferrous).

Testing performance is non-destructive and extremely accurate. The 3813 is ideal for a broad range of applications in manufacturing, engineering and commercial inspection.



### Features & Specifications

- Measuring range: 0-40mils (0-1000µm) max.
- Resolution: 0.1µm/0.1mils (0-99µm) or 1µm (over 100µm)
- Guaranteed tolerance (after one-point calibration): +/- 1-3%n or 2µm (whichever is greater)
- 4-digit display, 0.40" (10mm) height,
- Minimum measuring area: 0.20" x 0.20" (5 x 5mm)
- Minimum radius of curvature: Convex: 0.12" (3mm), Concave: 1.2" (30mm)
- Minimum substrate thickness: Ferrous: 20 mils (0.5mm), Non-ferrous: 2 mils (50µm)
- Zero calibration
- Foil calibration
- Maximum surface temperature of test object: 302° F (maximum contact time 2 seconds)
- Power source: Four AA batteries
- Includes steel and aluminum substrate samples
- Includes four calibrated thickness samples
- Dimensions: 6.39" x 2.74" x 1.27" (161 x 69 x 32mm)
- Weight: 9oz. (260g)



#### 3813 Thickness Gage

Cat. No.	EDP	Description
3813	69883	Coating Thickness Gage with steel and aluminum substrate samples, four calibrated thickness samples, batteries, manual and case