

# Model GEDET Generalized Destructive Tester



GEDET is a versatile and sophisticated instrument for measurement of coatings of metal or alloy on substrates by electroplating or other methods. It is simple enough to be welcomed by operator of average skill when a large number of routine measurements on standard metallic coating are to be made. At the same time, it is sophisticated enough to be employed by a scientist for his investigation purposes on metallic and alloy coatings. It works on Coulometric principle. It has a very high accuracy and repeatability. It can measure thickness on flat or curved surfaces.

GEDET also measures coating on known length of wire or pins using Acrylic cell which is supplied as an accessory.

Metallic Coating	Base Metal / Material
CADMIUM	Aluminium, Brass, Copper, Nickel, Steel
CHROMIUM	Aluminium, Brass, Cadmium, Copper, Nickel, Steel, Stainless steel
COPPER	Aluminium, Iron, Nickel, Non-metals, Steel
LEAD	Aluminium, Brass, Chromium, Copper, Silver, Steel
NICKEL	Aluminium, Brass, Chromium, Copper, Silver, Steel
SILVER /THIN SILVER	Copper, Brass, Nickel, Tin
TIN	Aluminium, Brass, Copper, Nickel
TIN PLATE	Steel
ZINC	Aluminium, Brass, Copper, Nickel, Steel
GOLD	Brass, Copper, Nickel

**Alloys : Lead/Tin (40/60), Tin/Zinc (78/22) Tin/Copper diffusion layer. Various Other Alloy Combinations are also possible**

# Specifications (GEDET)



❖ <b>Measurement Range</b>	0 to 99.99 microns
❖ <b>Accuracy</b>	+/- 5%
❖ <b>Readability</b>	0.1 micron
❖ <b>Gasket Diameter</b>	3.5 mm
❖ <b>Area of Deplating</b>	Approx. 10mm <sup>2</sup> Circular with 3.5 mm Diameter gasket
❖ <b>Electrolyte Required</b>	Less than 2cc
❖ <b>Power</b>	240V AC, 50Hz, Single Phase, 12VA
❖ <b>Main frame</b>	21 L x 28 D x 12H cm
❖ <b>Weight</b>	Gedet = 3 Kg Stand Assembly with wooden block = 2.15 Kg
❖ <b>Electrolyte</b>	Formula for different plate/ base combination provided in manual

**Gedet-C (Gedet with Acrylic Cell) is supplied for measurement of coating thickness measurement on wire samples.**

*Due to continuous R&D, specifications are likely to change without notice*

**Manufactured by :**

**Para Electronics Manufacturing Division  
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