

1-800-GRAINGER (472-4643)

Coating Thickness Gauges



METAL TESTING

- Ferrous metals such as steel or iron
- Nonferrous metals such as brass, aluminum, or copper

Thickness Tester—Provides automatic substrate recognition; magnetic induction for ferrous substrates, eddy current measurement for nonferrous. Features single and continuous measuring modes; direct and group working modes with memory storage of 400 readings: 80 direct and 320 group. Includes user-settable high/low alarms, min./max./average measurement, and 1- or 2-point calibration. Comes with USB interface cable, software, calibration iron, calibration aluminum, precision standards, AAA batteries, and carrying case.

PosiTest DFT 2GE21 and 2GE22—Compact digital units include wrist strap, precision plastic shims, 2 AAA batteries, and hard carrying case.

Features zero and 1-point calibration adjustments. Displays the average for up to 99 measurements. 2GE21 measures coatings on steel. 2GE22 measures coatings on steel and aluminum.

PosiTector 6000—Instruments feature no calibration adjustment required for most applications, 1- or 2-point adjustment. Average zero feature, mils/microns/mm switchable, adjustability to known thicknesses, and high-resolution mode. Provide audible and visible high/low limit alerts, calculations of average, standard deviation, and min./max. thickness. Standard models 12Y318 and 12Y320 have a 250-reading memory capacity. Advanced models 12Y319 and 12Y321 feature 100,000/1000 group reading memory capacity, Scan mode, on-screen batch annotation, and data transfer via USB, WiFi, or Bluetooth. All models include rubber holster with

belt clip, USB cable, PosiSoft software, nylon case, and NIST calibration certificate.

PosiPen—Pen-type, pull-off gauge is permanently calibrated to measure small steel parts, hot surfaces (up to 450°F), and hard-to-reach places. Includes leather pouch and calibration certificate.

PosiTest FM and GM—Permanently calibrated, mechanical pull-off gauges measure nonmagnetic coatings on steel only. Each includes wrist strap, leather pouch, and calibration certificate.

NONMETAL TESTING

PosiTector 200—Each includes plastic shims, protective rubber holster, 1 bottle ultrasonic couplant, USB cable, PosiSoft software, nylon carrying case, AAA batteries, and NIST calibration certificate.



Item	Measuring Range	Recording Cap.	Accuracy	Calibration Certificate	Battery Type	Brand	Item No.
Ferrous and Non-Ferrous Metals							
Electronic							
Coating Thickness Tester	0 to 1250 micron, 0 to 49 mil	400	+/- (3% reading + 0.04 mils) ferrous, +/- (3% reading + 0.06 mils) non-ferrous	—	AAA	Extech	5GTH1
	0 to 80 mil	250	+/- 3% (7.9 to 39 mil), +/- 4 (0 to 7.8 mil), +/- 5% (39.1 to 80 mil)	—	AAA	Extech	40JK42
Coating Thickness Gage	0 to 60 mil	—	+/- (0.05 mil + 1%) Up to 2 mil, then +/- (0.1 mil + 1%)	NIST	AAA	Defelsko	5URV5
	0 to 60 mil	10,000	+/- (0.05 mil + 1%) Up to 2 mil, then +/- (0.1 mil + 1%)	NIST	AAA	Defelsko	5URV7
PosiTest DFT Coating Thickness Gage	0 to 40	10 Records	+/- 0.1 mil + 3%	—	—	Defelsko	2GE22
PosiTector 6000 Coating Thickness Gage	0 to 60	250	+/- (0.05 mil + 1%) Up to 2 mil, then +/- (0.1 mil + 1%)	NIST	AAA	Defelsko	12Y320
	0 to 60	100,000	+/- (0.05 mil + 1%) Up to 2 mil, then +/- (0.1 mil + 1%)	NIST	AAA	Defelsko	12Y321
Ferrous Metals							
Mechanical							
PosiPen Coating Thickness Gage	0.25 to 20	—	+/- 10% + 0.1 mil	—	—	Defelsko	2GE25
PosiTest FM Coating Thickness Gage	0 to 80	—	+/- 0.2 mil Up to 4 mil, +/- 5% over 4 mil	—	—	Defelsko	2GE23
PosiTest GM Coating Thickness Gage	0 to 8	—	+/- 0.04 mil Up to 0.8 mil, +/- 5% over 0.8 mil	—	—	Defelsko	2GE24
Electronic							
Coating Thickness Gage	0 to 250 mil	250	+ (0.01 mm + 3%), +/- (0.01 mm + 1%) 0 to 2.5 mm, +/- (0.5 mils + 1%) 0 to 100 mils, +/- (0.5 mils + 3%) 100 mils, 2.5 mm	NIST	AAA	Defelsko	54GC58
	0 to 60 mil	—	+/- (0.05 mil + 1%) Up to 2 mil, then +/- (0.1 mil + 1%)	NIST	AAA	Defelsko	5URV2
PosiTector 6000 Coating Thickness Gage	0 to 60	250	+/- (0.05 mil + 1%) Up to 2 mil, then +/- (0.1 mil + 1%)	NIST	AAA	Defelsko	12Y318
	0 to 60	100,000	+/- (0.05 mil + 1%) Up to 2 mil, then +/- (0.1 mil + 1%)	NIST	AAA	Defelsko	12Y319
PosiTest DFT Coating Thickness Gage	0 to 40	10 Records	+/- 0.1 mil + 3%	Yes	—	Defelsko	2GE21
	0.05 in to 7.9 in	—	+/- 0.004 in	No	—	Reed Instruments	161F01
Ultrasonic Thickness Gage	0.03 to 15.7 in (0.65 to 400mm)	500	0.002 in	—	—	Reed Instruments	52ZK68
Non Metals Such As Concrete, Wood And Composite							
PosiTector 200 Coating Thickness Gage	0.5 to 40	250	+/- 0.1 mil + 3%	NIST	AAA	Defelsko	1CTD1

Ultrasonic Wall Thickness Gauges



DEFELSKO

PosiTector ultrasonic thickness gauges (UTGs) measure wall thickness of materials such as steel, aluminum, plastic, and more. Flip display for right-side-up viewing in-hand or on work table. Accuracy: ±0.001", ±0.03mm. 250-reading memory. Each includes 5 MHz probe, protective rubber holster, couplant, USB cable, PosiSoft software, AAA batteries, nylon carrying case, and calibration certificate. Conform to ASTM E797.

UTG C (Corrosion)—Measures the effects of corrosion or erosion on tanks, pipes, or any structure accessible on 1 side only. Excellent for rough surfaces and heavily corroded applications. Scan mode for quick inspection over a large area.

UTG M (Multiple Echo)—Features through-paint capability to measure the metal thickness of a painted structure without removing the coating.

CORDEX INSTRUMENTS

UT5000 Intrinsically Safe—Provides nondestructive testing and predictive maintenance on pipelines and fixed equipment in hazardous locations. Built-in RFID+ software tags measurements with their locations along the pipeline and then organizes the data to give engineers the view at any specific location. Corrosion mode helps identify thinning spots. Accuracy: ±0.05mm (0.002").

EXTECH

Compact, rugged meters for nondestructive thickness measurements. 20LK16 features a 5 MHz probe, dot-matrix display, high-impact housing, and ability to capture minimum thicknesses. IP54 rated. 20LK17 includes echo-to-echo option to reduce coating errors, B-scan, and vibrate on alarm. 20LK18 has a color LCD, live waveform, file compare feature as a real-time corrosion monitor, dynamic change of waveform color on alarm, and grid review of saved readings.



Description	Measuring Range	Measurement Rate	Recording Cap.	Item No.
DeFelsko				
UTG C1, Corrosion	0.040 to 5.0 in (1 to 125mm)	6 readings/sec	250	1XTG3
UTG M1, Through Paint	0.100 to 5.0 in (2.5 to 125mm)	3 readings/sec	250	2DPP2
CorDEX				
UT5000, Intrinsically Safe	0.160 - 4.00 in	1-8Hz (User Defined)	1000 Readings	12M768
Extech				
Primarily Steel	0.040 in to 20 in	4 to 20 sec	—	20LK16
Primarily Steel, Recording	0.040 in to 20 in	4 to 20 sec	5000 Readings	20LK17
Primarily Steel, Recording with Color Waveform	0.040 in to 20 in	4 to 20 sec	5000 Readings	20LK18

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