



## 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 feature zero and 1-point calibration adjustments. Displays the average for up to 99

measurements. Include wrist strap, precision plastic shims, 2 AAA batteries, and hard carrying case. 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



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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.
<b>Ferrous and Non-Ferrous Metals</b>							
<b>Electronic</b>							
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
Coating Thickness Gage	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
	0 to 60 mil	—	+/- (0.05 mil + 1%) Up to 2 mil, then +/- (0.1 mil + 1%)	NIST	AAA	Defelsko	5URV5
PosiTest DFT Coating Thickness Gage	0 to 60 mil	10,000	+/- (0.05 mil + 1%) Up to 2 mil, then +/- (0.1 mil + 1%)	NIST	AAA	Defelsko	5URV7
	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
<b>Ferrous Metals</b>							
<b>Mechanical</b>							
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
<b>Electronic</b>							
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
<b>Non Metals Such As Concrete, Wood And Composite</b>							
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:  $\pm 0.001"$ ,  $\pm 0.03\text{mm}$ . 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:  $\pm 0.05\text{mm}$  (0.002").



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**CorDEX**



### 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.
<b>DeFelsko</b>				
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
<b>CorDEX</b>				
UT5000, Intrinsically Safe	0.160 - 4.00 in	1-8Hz (User Defined)	1000 Readings	12M768
<b>Extech</b>				
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