CEM

DT-1580
Professional Ultrasonic Thickness Gauge

CLT-1000
Cable Length Tester

CEM

The Professional Ultrasonic Thickness Gauge is an innovative instrument that signals a new era in ultrasonic thickness gaging. Ideally suited for almost every ultrasonic thickness application, this handheld thickness gage is fully compatible with a full line of dual and single element transducers. The versatile Professional Ultrasonic Thickness Gage can be used in applications ranging from wall thinning measurements of internally corroded pipes with dual element probes to very precise thickness measurements of thin or multilayer materials with single element transducers. The Professional Ultrasonic Thickness Gage comes standard with many powerful but easy-to-use measurement features and a host of application-specific software options. Its sealed case is designed to meet IP67 requirements to withstand the rigors of very wet or dusty environments. The color transflective VGA display provides superior readability from bright sunlight to complete darkness. It features a simple, ergonomic keypad that can be operated with the left or right hand for easy access to all functions.

EMC
EN: 61326

Features

Features
Dual and single element transducer compatibility
Wide thickness range: 0.08 mm (0.003 in.) to 635 mm (25 in.) depending on material and transducer selection
Corrosion thickness gaging with dual element transducers
Internal Oxide/Scale software option
Standard resolution of 0.01 mm or 0.001 in. for all transducers
High Resolution software option of 0.001 mm or 0.0001 in. with single element transducers 2.25 MHz to 30 MHz
Multilayer software option for measurements of up to 4 layers simultaneously
High Penetration software option for attenuating materials such as fiberglass, rubber and thick casting
Thickness, Velocity, and time-of-flight measurements
Differential mode and Reduction Rate mode
10,000 reviewable readings per scan

Model 1580

Specifications

Specifications		
Measurements	Dual element transducer measurement mode	Time interval from a precision delay after the excitation pulse to the first echo
	Through paint measurement mode	Measurement of true metal and coating thicknesses with a single back-wall echo
	Through paint echo to ech measurement mode	Time interval between two successive back-wall echoes to eliminate paint or coating thickness
	Single element transducer measurement modes	Mode 1: Time interval between the excitation pulse and the first back-wall echo Mode 2: Time interval between the delay line echo and the first back-wall echo (with delay or immersion transducers) Mode 3: Time interval between successive back-wall echoes following the first interface echo after the excitation pulse (with delay line or immersion transducers) Oxide: optional Multilayer mode: optional
	Thickness range	0.080 mm to 635.00 mm (0.003 in. to 25.000 in.) depending on material, transducer surface conditions, temperature, and selected configuration
	Material velocity range	0.508 mm/μs to 13.998 mm/μs (0.020 in./μs to 0.551 in./μs)
	Resolution (selectable)	Low: 0.1 mm (0.01 in.) Standard: 0.01 mm (0.001 in.) High Resolution (optional): 0.001 mm (0.0001 in.)
	Transducer frequency range	Standard: 2.0 MHz to 30 MHz (-3 dB) High Penetration (optional): 0.50 MHz to 30 MHz (-3 dB)
Display	4" TFT LCD display	
Power supply	AC/DC adaptor, 24 V; lithium-ion battery 23.760 Wh; or 4 AA auxiliary batteries	

Size(HxWxD): 216mm x 100mm x 47mm
Weight: 706g

Accessories:
3.7V Li battery, USB cable, CD, gift box with carrying case.

CLT-1000 cable length tester features high accuracy and fast reflection, which finds distance to using Time Domain Reflectometry.

Features

Features
High accuracy and fast reflection.
User friendly menu on screen
Operation for easy-to use
Automatic output impedance control
Auto-Zero and Auto Range
Large TFT Color LCD Display
Auto-Sensitivity allows for closer matching to a wide range of cables under test. Only V.O.P. Settings required
Measuring capability of the V.O.P. of a sample cable
99 internal memory locations store up to 99 traces for future analysis

High accuracy and fast reflection.

3.0km @V.O.P≤99.9%

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Specifications

Specifications	
Minimum Range	pair cable or coaxial cable >5m
Maximum Range	Depends upon the V.O.P of the cables under test. 3.0km @V.O.P≤99.9%, 2.4km @V.O.P≤80.0%, 2.0km @V.O.P≤66.0%, 1.5km @V.O.P≤50.0%
Range Selection	Automatic range control
Accuracy	± [2% of reading +10cm] < 100m, ± [2% of reading +20cm] ≥100m
Resolution	0.01m < 100m, 0.1m≥100m
Impedance Selection	Automatic output impedance control
Cable Library	20 standard cable types
Memory Location	99 for custom cable types
Connector Type	BNC, RJ45

Size(HxWxD): 152mm x 61mm x 34mm   **Weight:** 230g

Accessories: 2 x AA batteries, USB cable, CD, gift box with carrying case.

Model CLT-1000

DT-265 Colorimeter

Colorimeter is widely used in different industries such as electroplating oxide, plastic cement, printing, paint, weaving and dyeing. It measures the sample color data Lab, Lch, color difference ΔE and ΔLab according to CIE color space.

Features

Features
Free Color Management Software
Store 5 standard sample and 1000 reading records
Repeated Accuracy ΔE<0.1
Ergonomic Design
TFT true color 2.0 inch 320x240 LCD display
USB2.0 Full Speed interface
Bluetooth interface BLE4.0
Language selection English/Chinese

Bluetooth

Made for
□iPod □iPhone □iPad

Specifications

Specifications	
Color Space	CIELAB CIELCH CIEXYZ RGB
Color Difference Formula	ΔE*Lab ΔE*Lch
Measurement Caliber	φ8mm
Illumination Condition	45°/diffused illumination
Light Source	D65/RGB LED
Sensor	RGB Silicon Photoelectric diode
Observer	CIE 10°Standard observer
Measurement Interval	1.5Sec
Battery	Li-ion battery, support USB charging, 1000 Measurements
Optional Accessories	Micro Bluetooth printer

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Model 265

Size(HxWxD): 150mm x 52mm x 30mm
Weight: 300g

Accessories:
3.7V Li battery, USB cable, CD, gift box with carrying case.