

Thickness gauge with coating penetration function



UM-2 Series Technical Parameters

Product Features

Step Calibration Block

Software

UM-2 series is an excellent performance ultrasonic thickness gauge with high stability and accuracy of measurement.

Our company is the first to develop thru-coating technology in China in 2006. Our UM-2D offers this function. It can directly measure the substrate thickness without removing the coating on the surface of the test object.

The applicable coatings for this function are: paint layer, plastic coating, etc.

This function is achieved by measuring two consecutive bottom echoes of the substrate. it also has more advantages: no need zero-point calibration, high stability of the measurement and don't drift

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Technical parameter					
Display	128×64 dot-matrix LCD screen with EL backlight				
Operating Principle	P-E (pulse-echo) , E-E (echo-echo) with dual-crystal probes (Only UM-2D)				
Measuring Range	Std. mode: 0.8mm to 300mm, depending on material and probe				
	Thru-coating: 3mm-20mm with PT-08 probe(Only UM-2D)				
Measuring Limits o	f Φ20mm×3.0r	Φ20mm×3.0mm(PT-08 probe)			
Tube (Steel):	Φ15mm×2.0mm(PT-06 probe)				
	The measurin	The measuring error is up to ± 0.1 mm			
Measuring Error	Low limit to 10mm: ±0.05mm				
	10mm to high limit: ± (0.5%H+0.01) mm				
	Note: H is the actual thickness of the testing object				
Repeatability:	0.05mm	0.05mm			
Resolution	0.01mm / 0.001in				
Units	Inch / Millimeter				
Calibration	Zero calibration, One-point calibration, Two-point calibration				
V-Path Correction	Automatic, Compensate the nonlinearity of dual element probe				
Update Rate	4Hz				
Material Velocity Range	1000 ~ 9999 m/s (0.0394 to 0.3937 in/us)				
Data Storage	5 groups are divided to store 500 thickness values				
Minimum Value	Move the probe along the surface of the measured object, the gauge can find the				
Checking	thinnest point automatically.				
Warning Function	There will be an alarm sound if the measured value exceeds the pre-set thickness				
	limit.				
Velocity Storage	Velocity of 5 different materials can be stored				
Language	Selectable English and Chinese				
Communication Port	USB port or Serial RS 232C port (Optional)				
Software	UmView softwa	UmView software is used for measurement data transmission, storage, analysis and documents			
	editing (Optional)				
Power	2pcs 1.5V AA	2pcs 1.5V AA alkaline batteries (Warning with low battery voltage)			
Working Time	Up to 200 hours (no backlight)				
Auto Power-off	AUTO OFF after 5 minutes of inactivity				
Operating Temperature	-10° C to +50° C ,-20° C in special requirements				
Size	149mm X 73mm X 32mm(H X W X D)				
Weight	ght 210g including batteries				
Optional Accessories					
· ·	Cast iron Probe	Small Tube Probe	Fingertip Probe	Probe Cable	
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Couplant/High-temp Couplant

Rubber Sheath