

0.001mm Resolution



UM-3

Ultrasonic Thickness Gauge

UM-3 Technical Specifications

Product Introduction

UM-3 precision ultrasonic thickness gauge adopts single element delay line probe, improves accuracy by multiple echoes, the resolution up to 0.001mm ,lower limit of measurement to 0.30mm.

UM-3 has both common and precision operating modes.

The common mode adopts the interface wave-echo mode, the measuring range is 1.5mm - 20mm; The precision mode adopts echo - echo mode, the measurement range is 0.30mm- 10mm.

Product Parameter		
Display Type	128*64 dot-matrix LCD screen with EL backlight	
Operating Principle	I-E(interface-echo) mode with single element delay line probe	
	E-E(echo-echo) mode with single element delay line probe	
Measuring Range	0.3mm to 10mm in E-E mode	
	1.5mm to 20mm in I-E mode	
Indication Error	±0.005mm (≤3mm) ±0.05mm (3>H≤20mm) H: Thickness of measured material	
Resolution		
	H<10mm : 0.001mm/0. inch : 0.0001, 0.001,	
Units	Inch or Millimeter	
Update Rate	Common measurement of 4Hz,Minimum scan of 25Hz	
Material Velocity Range	1000 ~ 9999 m/s (0.0394 to 0.3937in/us)	
Memory Function	5 arrays are divided to store 500 thickness values	
Delete Function	Delete the suspicious data in the file, or delete all the stored data in	
	order to store new data	
Warning Function	If the measured value exceeds the preset thickness limit, the warning	
	tone will start	
Velocity Storage	Velocities of 5 different materials can be stored totally	
Languages	English and Chinese	
Communication Port	USB port or Serial RS 232 port (Optional)	
Application Software	UmView software for transmission,storage,analysis and documents editing (Optional)	
Power Requirements	Two 1.5V AA alkaline batteries (Warning with low battery voltage)	
Operating Time	Up to 200 hours with alkaline batteries (without backlight)	
Instrument Shut-off	AUTO OFF after 5 minutes of inactivity	
Operating Temperature	-10°C to +50°C ,-20°C in special requirements	
Size	149mm * 73mm *32mm(H * W * D)	
Weight	210g including batteries	
Optional Accessories		
Single Element Probe		Probe Cable
Wedge		Standard Test Block
Rubber Sheath		Communication Option
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