Specifications of UM-1D Ultrasonic Thickness Gauge

Standard Package:

UM-1D thickness gauge

Standard probe (PT-08)

Carrying case

Two 1.5V AA alkaline batteries

Couplant

Operating manual

Certification of quality

Packaging list

Operating Principle:

Standard mode: P-E (pulse-echo) method with dual-element probes Coating mode: E-E (echo-echo) method with dual-element probes

Probe Zero Adjustment:

Selectable: 1-point calibration: normal measurement

2-point calibration: curve surface measurement or other special application with a high precision

V-Path Correction:

Automatic

Measuring Range:

0.8mm to 300mm; 0.031in to 11.81in in standard mode 3.0mm to 18.0mm; 0.118in to 0.709in in through coating mode Depending on probe, material and surface condition

Digital Resolution:

0.001in or 0.1mm

Units:

Selectable: inch or mm

Display:

128 \times 64 dot-matrix LCD screen (1.65in \times 2.24in; 42mm \times 57mm)

EL backlight and switchable contract ratio

Digit height: 0.54in or 13.75mm

Measurement Update Rate:

4 Hz in standard measurement mode 25 Hz in MIN capture mode

Material Velocity Range:

1000 to 9999 m/s; 0.039 to 0.394 inch/ μ s

Power:

Two 1.5V AA alkaline batteries Warning with low battery voltage



Operating Time:

Up to 200 hours (without backlight) with alkaline batteries, depending on operating mode

Auto Shut-Off:

After 5 minutes of non-use

Operating Temperature:

-10 $^{\circ}$ C to +50 $^{\circ}$ C; +14 $^{\circ}$ F to +122 $^{\circ}$ F Specification to -20 $^{\circ}$ C/-4 $^{\circ}$ F on request

Size:

5.86in $\times 2.87$ in $\times 1.25$ in; 149mm $\times 73$ mm $\times 32$ mm ($H\times W\times D$)

Weight:

200g; 7oz (including batteries)

Data Logger Capacity:

Up to 500 readings can be divided into a maximum of 5 files (user-selectable)

Optional Accessories:

Attachable rubber case

Numerous special probes on request

Couplants and high-temperature couplant

4-step/6-step block for calibration

Data transmission cable

Application software

Operating Language:

English and Chinese

Measuring Error:

Up to 1in: \pm 0.002in or \pm 0.1mm

Above 1in: ± 1%H

H is the height of the testing object

Repeatability:

 \pm 0.001in or \pm 0.1mm

Application Software:

UMVIEW

Interfaces:

Serial RS 232C port in combination with a communicative cable; Data transfer parameters: 8 bits, 1 stop bit, 9600 baud, no parity.