Specifications of UM-1 Ultrasonic Thickness Gauge

Standard Package:

UM-1 thickness gauge

Standard probe (PT-08)

Carrying case

Two 1.5V AA alkaline batteries

Couplant

Operating manual

Certification of quality

Packaging list

Operating Principle:

Ultrasonic pulse/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
Depending on probe, material and surface condition

Digital Resolution:

0.001in or 0.1mm

Units:

Selectable: inch or mm

Display:

128×64 dot-matrix LCD screen (1.65in×2.24in; 42mm×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/μs

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℃ to +50℃; +14℉ to +122℉
Specification to -20℃/-4℉ on request

Size:

5.86in×2.87in×1.25in; 149mm×73mm×32mm (H×W×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: ±0.002in or ±0.1mm
Above 1in: ± 1%H
H is the height of the testing object

Repeatability:

±0.001in or ±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.