



There are two operating modes of **ST-2D** ultrasonic thickness gauge: standard mode and coating mode. The operating principle of coating mode is E-E (echo-echo). When there is coating or oil paint on the surface of the object, the net thickness of the material can be directly measured neither without necessarily removal of the coating nor without the calibration. While the defect of this mode is that the measuring range is relatively narrow: 0.118in-0.709in (with standard probe). The operating principle of standard mode is P-E. With the covered coating, the measurement will not be very accurate, so the coating should be removed before measuring in standard mode. The advantage of this mode is that the measuring range is relatively wide: 0.031in-19.685in (with standard probe).

Display:

128x64 dot-matrix LCD screen (1.65inx2.24in ;42mmx57mm)
EL backlight and switchable contrast 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

Standard package:

ST-2D 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 dualelement probes
Coating mode: E-E (echo-echo) method with dualelement 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:

H < 4in : 0.001in /0.01in or 0.01mm/0.1mm
H \geq 4in : 0.01in or 0.1mm

Units:

Selectable: inch or mm



MISURATORE SPESSORI CENTESIMALE

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Measuring error:

Up to 1in: ± 0.002 in or ± 0.05 mm

Above 1in: $\pm 0.5\%$ H

H is the height of the testing object

Repeatability:

± 0.001 in or ± 0.025 mm

Application software:

UMVIEW

Interfaces:

Serial RS 232C port in combination with a communicative cable;

Data transfer parameters: 8 bits, 1 stop bit,

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MISURATORE SPESSORI CENTESIMALE
51 - 20

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°C to +50°C; +14°F to +122°F

Specification to -20°C/-4°F 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

9600 baud, no parity.

