

## DESCRIPTION:

EC-2000, EC-2000-L and EC-2000-C is an instrument used to apply the principle of ultrasonic pulse reflection to measure the thickness (or speed of sound) of ultrasonic good conductor materials, including: measuring the thickness of metal materials such as steel, iron, copper, or aluminum, and measuring the thickness of non-metallic materials such as plastic, ceramic, rock, or glass.

EC-2000, EC-2000-C measuring range is 1~400mm, EC-2000-L is 1~300mm; The resolution of EC-2000 is up to 0.01mm, and the resolution of EC-2000-L and EC-2000-C is 0.1mm. When measuring, apply the coupling agent on the measured object, and then fit the probe to the daub part, and the instrument can measure the thickness of the measured object.

The EC-2000 uses a dot array display with a standard menu and data display interface for both average, minimum and maximum values. In addition, the instrument contains a large capacity memory. During the measurement process, the instrument can count and record the measurement results (the restart can be queried). EC-2000-L and EC-2000-C uses the segment code display screen, with a streamlined data display interface, the display effect is simple atmosphere, easy to operate and easy to use.

EC-2000, EC-2000-L and EC-2000-C standard probe line is about 1 meter long, which can be operated in a narrow space or assembly line.

## FEATURES:

- Measure the material thickness
- Measure the sound speed of the material
- Range of 400mm(steel)  
(EC-2000、EC-2000-C)
- Maximum resolution of 0.01mm  
(EC-2000)
- Sound speed is adjustable
- Single/Continuous measurement  
(EC-2000、EC-2000-C)
- Data statistics and storage
- Public and British units are optional
- Coupling state prompt
- Separate probe
- Support for user calibration
- Display screen with a backlight
- Battery protection



EC-2000-L  
EC-2000-C

EC-2000

## APPLICATION:

- Petrochemical engineering
- Metallurgical processing
- Shipbuilding
- Aerospace

# Ultrasonic Thickness Gauge

EC-2000  
EC-2000-L  
EC-2000-C

## NOTE:

- Avoid sun exposure.
- Avoid direct contact with corrosive chemicals.
- Fall off carefully.

## WARNING:

- No private disassembly!
- Strictly prevent strong electricity, electrostatic impact!

## FUNCTION AND TECHNICAL PATAMETERS:

| Model                   | EC-2000                                                                                                                                                            | EC-2000-L                                                                                                                                                                        | EC-2000-C         |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Measuring principle     | Ultrasonic pulse reflection                                                                                                                                        |                                                                                                                                                                                  |                   |
| Frequency               | 5MHz                                                                                                                                                               |                                                                                                                                                                                  |                   |
| Measuring range         | 1~400mm (steel)                                                                                                                                                    | 1~300mm (steel)                                                                                                                                                                  | 1~400mm (steel)   |
| Measuring pattern       | Single/Continuous                                                                                                                                                  | Continuous                                                                                                                                                                       | Single/Continuous |
| Sound speed range       | 1000~9999m/s                                                                                                                                                       |                                                                                                                                                                                  |                   |
| Resolution ratio        | ≤99.99mm: 0.01mm<br>≥100.0mm: 0.1mm                                                                                                                                | 0.1mm                                                                                                                                                                            |                   |
| Accuracy                | 1.00~9.99mm: ± 0.10mm<br>10.00~299.9mm: ±(1% of reading + 0.10mm)<br>300.0~400.0mm: ±(2% of reading + 0.10mm)<br>Other range display values are for reference only | 1.00~9.99mm: ± 0.10mm<br>10.00~299.9mm: ±(1% of reading + 0.10mm)<br>EC-2000-C:<br>300.0~400.0mm: ±(2% of reading + 0.10mm)<br>Other range display values are for reference only |                   |
| Unit                    | mm, inch                                                                                                                                                           |                                                                                                                                                                                  |                   |
| Reaction time           | About 0.5 seconds for single measurement mode, about 0.3 seconds for continuous measurement mode                                                                   |                                                                                                                                                                                  |                   |
| Statistic               | 100 groups of data                                                                                                                                                 | 60 groups of data                                                                                                                                                                |                   |
| User calibration        | 4mm calibration                                                                                                                                                    |                                                                                                                                                                                  |                   |
| Display                 | 128*128 Dot-matrix LCD screen, with a backlight                                                                                                                    | Segment code screen, with a backlight                                                                                                                                            |                   |
| Operational environment | Temperature: -10~50℃, Humidity: ≤90%RH, no condensation dew                                                                                                        |                                                                                                                                                                                  |                   |
| Storage environment     | Temperature: -20~60℃, Humidity: ≤90%RH, no condensation dew                                                                                                        |                                                                                                                                                                                  |                   |
| Battery                 | 3 pcs AAA 1.5V alkaline batteries; USB 5V/2A (Type-C interface)                                                                                                    |                                                                                                                                                                                  |                   |
| Levels of protection    | IP40                                                                                                                                                               |                                                                                                                                                                                  |                   |
| Dimension               | 135*72*27mm                                                                                                                                                        |                                                                                                                                                                                  |                   |
| Case material           | ABS                                                                                                                                                                |                                                                                                                                                                                  |                   |
| Weight                  | About 127g (excluding battery)                                                                                                                                     |                                                                                                                                                                                  |                   |

|                       |                        |
|-----------------------|------------------------|
| Type of probe         | PU5-10 (standard)      |
| Probe type            | Ordinary probe         |
| Frequency             | 5MHz                   |
| Measuring range       | Determined by the host |
| Minimum measured area | Diameter 15mm          |
| Contact temperature   | -10~60℃                |
| Wire length           | About 1m               |
| Weight                | About 45g              |