

DESCRIPTION:

EC-2000 is an instrument that applies the principle of ultrasonic pulse reflection to measure the thickness (or sound velocity) of ultrasonic good conductor materials. Its specific uses include: measuring the thickness of metal materials such as steel, iron, copper or aluminum, and measuring the thickness of non-metallic materials such as plastics, ceramics, rock or glass.

The maximum range of EC-2000 is 300mm, and the maximum resolution is 0.01mm. When measuring, the user needs to set the material (or sound speed) of the measured object, apply the coupling agent, and stick the probe end to the coated part, and the instrument can measure the thickness of the measured object.

EC-2000 has standard menu and data display interface, which can display average, minimum and maximum values at the same time. In addition, the instrument contains large capacity memory. During the measurement, the instrument can count and record the measurement results (restart to query).

EC-2000 can be equipped with a variety of separate probes that are easy for users to replace. Its standard probe, with a line length of about 1m, can work in a narrow space or assembly line.



EC-2000 Ultrasonic thickness gauge

FEATURES:

- **Standardized menu interface**
- **Measure material thickness and sound velocity**
- **Measuring range: 1.00~ 300.0mm (Steel)**
- **Maximum resolution 0.01mm**
- **Support single and continuous measurement**
- **Optional materials and adjustable sound speed**
- **Over limit audible and visual alarm**
- **Coupling status prompt**
- **Data statistics and storage**
- **Metric and imperial units are optional**
- **Separate probe (User replaceable)**
- **User calibration**
- **Display with backlight**
- **Automatic shut-down**
- **Battery protection**

APPLICATION:

- **Petrochemical Industry**
- **Metallurgy**
- **Shipbuilding**
- **Aerospace**

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NOTE:

- Avoid sun exposure.
- Avoid contact with corrosive chemicals.
- Be careful of falling.

WARNING:

- Do not disassemble without permission!
- Strictly prevent strong electricity and electrostatic shock!

FUNCTION AND TECHNICAL PATAMETERS:

Host model	EC-2000
Measuring principle	Ultrasonic pulse reflection
Measuring range	1.00~300.0mm(Steel) Note: other ranges are reference only
Sound velocity range	1000~9999m/s
Resolution	0.01mm(≤ 99.99 mm), 0.1mm, 0.01in
Accuracy	1.00~9.99mm: ± 0.10 mm 10.00~300.0mm: $\pm (1\%H+0.10$ mm), H is the thickness of the measured object
Unit	mm, inch
Measurement mode	Single measurement, Continuous measurement
Reaction time	Single measurement takes about 0.5 seconds Continuous measurement takes about 0.3 seconds
Memory capacity	100 groups of values
User calibration mode	4mm calibration
Display	128*128 dot matrix LCD with backlight
Operating environment	Temperature: -20~50°C, Humidity: $\leq 90\%$ RH, No condensation
Stored environment	Temperature: -30~70°C, Humidity: $\leq 90\%$ RH, No condensation
Power supply	Three 1.5V alkaline batteries; USB 5V/2A
Protection Class	IP40
Dimensions	135*72*27mm
Shell Material	ABS
Weight	About 127g (Without battery)

Standard probe parameters	
Frequency	5MHz
Minimum measurement area	Diameter 10mm
Line length	About 1m
Weight	About 46g

 **+982165565901**

 **+982144584619**

 **+989034119385**

 **Tehran, Tehransar**