

Eddy Current Conductivity Tester

Model : FD-102



Product Features

- ★ **High resolution:** More accurate measurements.
- ★ **Simultaneous measurement and display of conductivity/resistivity.**
- ★ **Intelligent calibration:** fast, accurate, and completely avoids errors from manual calibration.
- ★ **Excellent stability and consistency:** Your personal guardian for quality control.
- ★ **Temperature compensation:** The reading will be automatically compensated to the value at 20°C.
- ★ **Extra-wide measurement range:** 0.5% IACS—110% IACS (0.29MS/m-64MS/m) meeting the conductivity testing requirements for all non-ferromagnetic non-ferrous metals.
(The test range can be customized according to user needs)
- ★ **Easy to operate:** It can be used anywhere in the production site and laboratory, winning the favor of a wide range of users.
- ★ **User-friendly intelligent software:** providing you with a smooth detection interface and powerful data

Technical Specifications

Detection technology	Vortex
Operating frequency	Sine wave 60kHz (standard); frequency can be customized (120 , 240 kHz , etc.)
Measurement range	Conductivity: 0.5 % IACS ~ 11.0 % IACS Electrical conductivity: 0.29 MS/m ~ 6.4 MS/m Resistivity: Automatically calculated and displayed based on conductivity measurements. * The unit of measurement can be set by the user . * The test scope can be set specifically according to user needs.
resolution	Conductivity: 0.01% IACS Electrical conductivity: 0.01 MS/m Resistivity: 0.000001 $\Omega \cdot (\text{mm})^2/\text{m}$
Detection accuracy	± 0.1 % IACS ~ ± 0.5 % IACS
Lift-off effect compensation	0 ~ 0.5 mm
Automatic temperature compensation function	The conductivity measurement results are automatically compensated to the value at 20 °C . Combined with the workpiece's temperature coefficient, measurement accuracy is ensured regardless of ambient temperature.
stability	It has good stability and is certified by an authoritative metrology institution. The certificate bears the CNAS mark.
Work environment	Temperature: 0 °C ~ 50 °C ; Relative humidity: 0-85% (non-condensing)
show	2.4 -inch dot matrix: 24 \times 320 ; TFT true color LCD ; Six background colors are available, and the backlight intensity is adjustable .
language	You can switch between Chinese and English automatically.
Work status	User-friendly power-saving mode . Standard factory configuration: The system will automatically shut down after 30 minutes of inactivity to save energy. Standby time can also be set according to user needs .
powered by	High-capacity, high-performance lithium polymer battery . Standby power consumption less than 5 μ A ; continuous operation for 100 hours under weak backlight illumination .
Standard probe	Diameter ϕ 12.7mm , operating frequency 60KHz. Frequency can be customized, and the probe can be replaced by the user.
Custom probe	Diameter ϕ 8mm , operating frequency can be customized. The probe is replaceable.
Reading storage	It can save 1000 dataset parameter values ; the data can be

	stored in an infinite loop .
Data transmission	It comes equipped with data acquisition software, and the measurement data can be transferred to a computer for printing, saving, and editing .
Main unit weight	260g
Main unit size	180 mm × 80 mm × 35 mm
Instrument casing	Polyester materials
Packaging and protection	Shockproof portable toolbox
Packing list	The package includes: conductivity meter main unit, probe, calibration blocks, high-frequency connection cable, data cable , data software, probe protective cover, charger, instruction manual, test report, warranty card, certificate of conformity, photographic version of instrument operation steps, demonstration video, cleaning cloth , shockproof carrying toolbox , etc.