



FD102 is a kind of eddy current electrical conductivity meter, which is designed for quick & convenient measurement of material property, such as material separate、 quality control、 material state check and so on. It uses the electromagnetism testing principle. Testing objects focus on non-ferromagnetic material.

Features

- ★ The meter uses 60 KHz (aviation industry standard) to inspire, and the testing data can be read in two kinds of unit: %IACS or MS/m.
- ★ Its big typeface, the back light illumination designs are advantageous for users to take the testing data even in low light condition.
- ★ Two kinds of operate languages satisfy different national demand.
- ★ It uses the high property battery to make sure it keeps more running time, and because of its mini-size, it is easy to carry and to grasp hold.
- ★ The design of the meter is more advantages: user can replace the probe in the outdoor, don't need to return to the company to adjust the probe into matching the meter.
- ★ It can store 1000 measurement data.

Applications

- ★ Test the conductivity of aluminum, copper and other non-ferrous magnetic metal in the processing industry.
- ★ In the aerospace and automotive industries, monitor the process of heat treatment, the strength and hardness of aluminum alloy.
- ★ Test the conductivity aluminum when it has not been oxidized.
- ★ Test the purity grade of materials.
- ★ Test materials resistivity.
- ★ Material Thermal Performance analysis.

Technical parameters

NAME	CONTENT	
Measurement technology	Eddy current	
Operating frequency	60KHz, 240KHz	
Display screen	240X320 pixels TFT-LCD; 4 kinds of background color	
L*B*H	180*80*30 mm	
Instrument case	Anti-intense impact, water-proofing polyester.	
Weight	260g	
Power supply	High capacity, high performance lithium polymer battery	
Measuring range	Conductivity	6.9%IACS—110%IACS(4.0 MS/m -64MS/m)
	Resistivity	Correspond the Conductivity
Distinguishing rate	0.01% IACS 0.000001Ω · (mm) ² /m	
Measuring accuracy	0° C to 50° C 0~23%IACS : ±0.1%IACS 23%IACS~110%IACS : ±0.3%IACS	
Temperature compensation	Automatic compensation to the value of 20 °C.	
Normal work environment	Relative humidity	0~95%
	Operating temperature	0°C~50°C
Language	English, Chinese	
Fitting	Portable box; probe; probe in cable; operating manual; conductivity standard sample; adapter.	
Probe	Diameter:12.7mm (Applicable to minimum measuring area diameter at 60KHz is10mm.)	
	Diameter: 8mm (Applicable to minimum measuring area diameter at 240KHz is 7mm.)	