

New Technique, New Equipment

SMART-2097

EDDYSUN®

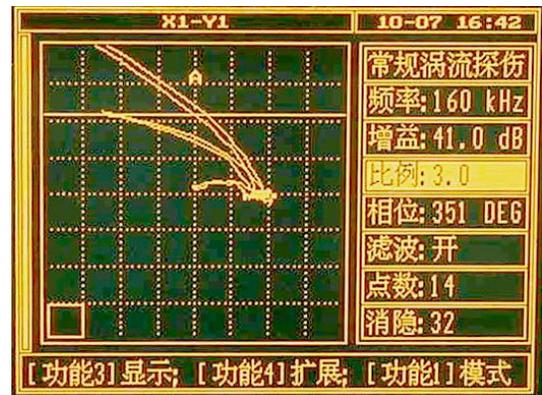
EDDY CURRENT TESTER

SMART-2097 intelligent portable multi-frequency eddy current tester, which is designed with DSP digital processing technique, real-time multi-frequency ET technique and microprocessor technique, can efficiently detect defection of metal material, sorting various alloys or conditions of heat-treatment, and measure change of thickness. The user can preset desired programs and parameters, and then operate with man-machine conversation, hints of menu, and hot-key. The product is small size, light weight, portable, and the built-in rechargeable lithium-battery can be used at local test where there's no power supply.

SMART-2097 can be used to: ①common defect evaluation (i.e. surface test of airplane's blade, wheel hub and aircraft landing gear etc.); ②Detect defects of inner side of rivet/bolt hole, while without taking apart the holes or fasteners; ③Defect detection of metal parts and ferromagnetic welding surface; ④Measure change of thin-plate's thickness (i.e. wear, corrosion, and mechanical wear); ⑤Thickness measurement of non-conductive coating/plating on conductor; ⑥Detect in-service tube of non-ferromagnetic heat-exchanger with material of copper, Ti, Al, Zr (defects includes: crack, wall thickness, corrosion); ⑦Test corrosion of composite layer, for example, to detect multi-layer structure of airplane, joint of fuselage-wing; ⑧monitor change of heat-treatment conditions, and sorting material. Besides, the equipment has optional functions of detecting weld with anti-corrosion coating, measuring depth of crack and function of measuring electronic conductivity. Therefore, the equipment will get good result for the pre- and in-service detection in industries of aerospace, electric power and petrochemical.

The Main Characteristics:

- Owns all functions of SMART-97;
- 2 independent frequencies (can be expanded to 8);
- 3 automatically mixing units;
- Range of frequencies: 64Hz-5MHz;
- High-speed accuracy / digital electronic balancing;
- Gain: 0-90dB (step: 0.5dB);
- Digital filter of each-channel: high filter: 0Hz-1990Hz
low filter: 0Hz-2000Hz
- Automatically/manually measure amplitude and phase;
- Unique non-equal phase/amplitude alarm;
- Exciting voltage of probe can be adjusted by keyboard;
- Display two-trace impedance plane and a stripe curve;
- C-scan display;
- High-light wide-angled EL electroluminescent screen
- Range of operating temperature: -25°C-+60°C;
- Internal power supply: Rechargeable lithium battery;
- External power supply: AC 220V;
- Magnetic memory test function with 8-channel can be extended
- Magnetic leakage flux testing function with 8-channel can be extended
- Weight: 2.15 Kg



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