SCIENCE OF SENSING

LZ-990 "ESCAL"

Dual-Type Coating Thickness Tester



Dual-Type Coating Thickness Tester LZ-990 "ESCAL"

Multi function and high accuracy in compact body!





Measurement example of the square pipe and the pipe



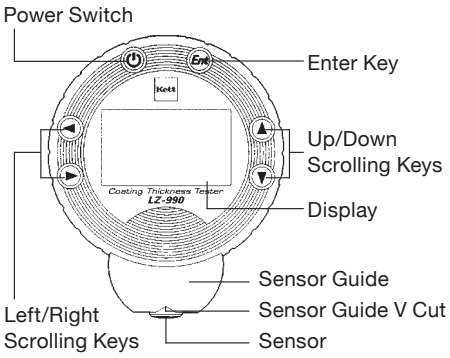
Accessories

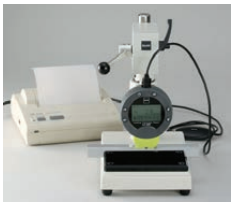
This dual-type coating thickness tester LZ-990 "ESCAL" has been achieved multifunction and high accuracy despite simple operation and compact body. Various functions LZ-990 has are useful for obtaining reliable measurement results and optimize your tasks.

Special Futures

- ***Dual type Coating Thickness Tester with automatically***
  LZ-990 integrates both electromagnetic and eddy current method in one instrument, and automatically recognizes the substrate materials (Ferrous or Non-ferrous) and appropriate measurement mode.
- ***Application Memory Function (Calibration Curve Memory)***
  8 electromagnetic and 8 eddy-current type – up to16 pre-calibrated applications (calibration curves) can be stored in memory so no calibration is required for using the same type of item from the second use. This memory will not be erased even if the power is switched off. It reduces the time and effort to create each time a calibration curve.
- ***Data output***
  Measured or measuring data can be output to optional printer or personal computer via an optional communication cable. The data memory function eliminate transcription errors.
- ***Large backlit LCD***
  The measured value is easy to read even in the dark by the large display and the backlight. It is useful to reduces the reading errors.
- ***Other Functions***
  Automatic ON/OFF switch function. 15 different adjustable settings including upper and lower limits and statistic calculations.

Instrument View





The optional Measuring stand LW-990 and Printer VZ-330



The optional communication cables for printer and PC

Specifications

Measuring Method	Electromagnetic and Eddy Current (automatic substrate recognize function)
Applications	Non-magnetic coatings on magnetic metal or insulating coatings on non-magnetic metal
Measurable Range	0~2000 µm or 0~80.0 mils
Measuring Accuracy	±1µm under 50 µm ±2% at 50 µm – under 1000 µm ±3% at 1000 µm – under 2000 µm
Resolution	±0.1 µm under 100 µm, 1 µm at 100 µm or greater
Display	Digital (backlit LCD, minimum displayed digit is 0.1 µm)
Data Memory	Approximately 1000 points
Application Memory	8 types each of electromagnetic and eddy-current ; 16 total calibration curves can be memorized
Power Supply	1.5 V alkaline batteries (size AAA) x 2
Power Consumption	40 mW (with backlight off)
Temperature	0 to 40 ˚C
Output	Personal computer (USB), Printer (RS-232C)
Dimensions & Weight	82 (W) x 99.5 (D) x 32 (H)mm, Approx. 160 g
Accessories	Zero Calibration holder (Iron substrate, aluminum substrate), Calibration foils (50, 100, 1000 µm), Batteries (size AAA) x 2, Carrying pouch, Operating manual, Wrist strap
Optional Accessories	Calibration foils (other than the one furnished), Measuring stand LW-990, Printer VZ-330, Printer cable, Data Logger software (LDL-01), USB computer cable

Applications

Substrate	Iron / Steel		Aluminum, Copper, Brass, etc.	
Applications	Paint	Plastic	Paint	Plastic
	Lacquer	Resin	Rubber	Lacquer
	Rubber	Enamel	Enamel	Resin
	Lining	Zinc	Alumite (Anodic oxide coating)	
	Chrome	Tin	Other	
	Copper	Aluminum		
	Other			