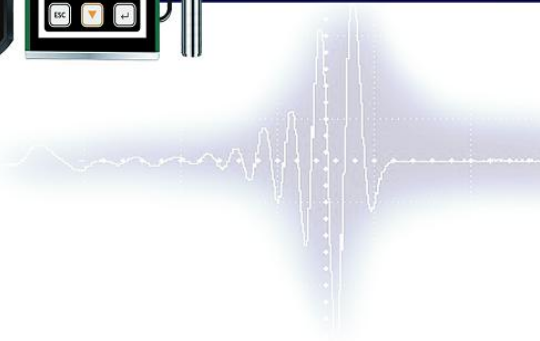


《OPERATION INSTRUCTION》



CTN SERIES
COATING THICKNESS GAUGE





Warranty Card			
Purchaser			
Product Name		Purchasing Date	
Model		Serial No	
Manufacturer			

Please use this warranty card as proof of warranty !

Certificate			
Serial No			
Product Name		Date of Production	
Model		Inspector	01
Conclusion			

CTN Series Coating thickness gauge

Operation guide

Part1.Panel Introduction

- 1)  : Calibration
- 2)  : Delete test value and calibration value.
- 3)  : Turn on/off.
- 4)  : Click to switch units um/mil.
- 5)  : (Sun icon) Click to switch the screen backlight on or off.
- 6)  : Menu options.
- 7)  : When calibrating or entering menu options, press this key to confirm the selected content.
- 8)   : Direction selection key. Used to select relevant content from the menu or to calibrate as+and -.

9) : Setting limits.

10) : Collect data from previous measurements.

Part2.INSTRUCTION:

1.Insert the probe into the host first.

2.Press  to Turn on.

3.Instrument calibration: The instrument has been calibrated at the factory. It can be used directly without calibration.

ATTENTION: If not used for a long time, or if the deviation increases due to probe wear, calibration can be carried out as follows:

CALIBRATION INSTRUCTION:

Five point calibration:

First, press and hold the " " and " " simultaneously to turn on the device. Do not release the down arrow until the instrument displays the word "calibration", and then enter the calibration interface officially.

Then place the probe on the metal substrate, press the " " button, and the measured value will become 0.

Select gradually calibration plates from thin to thick for

calibration.

First, place a calibration piece of about 50um (based on the actual piece) for measurement. After measuring, lift the

probe and press the   to make the measured value

become the actual value on the standard piece. Then click 

to confirm. Select calibration plates with values around 100um, 250um, 500um, and 1000um in sequence. It will automatically shut down after calibration is completed.

ONE POINT CALIBRATION:

After the five point calibration, select a calibration piece with the closest thickness based on the actual thickness of the coating you have measured, and choose one point calibration before using it. The one point calibration method is as follows:

For example, if the coating thickness is about 45um, you can choose a 50um calibration piece to measure again, and then lift the probe,

Then press the button of   to make the measured

value become 45um, and click .

After the one point calibration, the instrument will have

higher accuracy when measuring coatings in the same thickness range.

NOTE: The accuracy of the instrument is affected.

Due to the measurement principle of this device, if you want to ensure the highest measurement accuracy of the instrument, it is best to use the actual workpiece (uncoated one) instead of the standard metal substrate of the machine for zero calibration, and then place the calibrated piece on the actual workpiece for calibration. This can avoid induction errors caused by differences in materials (such as differences in the content of elements in stainless steel).

Rear cover closing method:

When closing the rear cover, please push the dot position and then lower the cover accordingly.



Part3 Technical Parameter :

Model		
Measuring principle	Principles of Magnetic induction and Eddy Current	
Range	0-10000 μ m (depending on the probe)	
Probe connection method	Split type wire connection	
Measurement method	Continuous measurement method and single measurement method	
Operation mode	Direct and group methods	
Statistical function	Mean, maximum, minimum, number of tests, standard deviation	
Indication accuracy	± (3%%H+1) μ m	± (2%%H+1) μ m
Storage function	Can store 5 sets (up to 100 measurement values per set) of measurement data	
Work environment	0-40℃, 20-90%RH	
Power Supply	AA (No.5) battery	Lithium battery
Difference	Basic model, plastic shell, No.5 battery Power supply, with an error of around 3%.	Lithium battery charging can be connected to a computer to transmit data .Upgraded version, with an error of about 2%,metal shell dustproof and ant-interferencemetal shell.