

# JITAI6102 Coating Thickness Gauge



## I. Introduction

The instrument is a type of portable measuring gauge, capable of measuring rapidly, nondestructively, and precisely the thickness of coating and cladding material. It is suitable for on site as well as for laboratory uses. Via the using of different probes, many sorts of measuring can be satisfied by the gauge. It can be applied comprehensively to manufacturing, metal processing and chemical profession as well as to commercial inspection. It is indispensable for the major of materials protection

## II. Main feature

- Two thickness measuring methods adopted, the gauge can be applied to thickness measuring of non-magnetic coating on magnetic metal substrate as well as non-conductive coating on non-magnetic metal substrate;
- Multi type probe can be used (F1,F1/90,F10,N1,N1/90°,N10)
- 2 measuring modes are available: continuing measuring mode (CONTINUE) and single measuring mode(SINGLE)
- 2 operation modes are available: direct mode (DIRECT) and batch mode (A-B)
- 5 statistic values:mean value(MEAN), max. Value(MAX), min. Value(MIN), numbers of measuring(NO.), standard deviation(S.DEV)
- 2 methods can be used to calibrate the gauge, and the system error of the probe can be corrected by use of basic calibrating method
- Storage function: 500 measuring values can be stored
- Deletion function: delete the single questionable data occurring in measuring, as well as all of the data in memory area to perform the new measuring
- Limit can be set: capable of alarming automatically for measuring values out of limit; and a batch of measuring values can be analyzed via histogram
- Capable of communication with PC: measuring values and statistic values can be



sent to PC to perform the further process for data

- Indication of low voltage
- Buzzing indication in the course of operation
- With the function of error warning, error warning can be carried out through display or buzzing
- Two shut down modes are available: manual shut down mode and automatic shut down mode

### III. Technical Parameters

Measuring range	0-1250 $\mu$ m, depends on probes, MAX 10mm for the probe F10.
Working principle	Magnetic & Eddy
Substrate	FE / NFE base
Resolution	0.1 $\mu$ m
Display	128x64 LCD with backlight
Accuracy	$\pm 2\%H+1\mu$ m Note: H is thickness reading
Memory	5 files x 100 values
Unit switch	Metric ( $\mu$ m) Imperial (mil)
Working temperature	Operation Temp. : -10~50°C Storage Temp. :-30~70°C
Power	AA battery 2pcs
Weight	340g
Size	126*67*32mm

### IV. Standard Configuration

	Name	QTY
1	Main unit	1
2	Probe (Fe or NFe)	1
3	Calibration piece + Zeroing plate	5+1
4	AA battery (Non-aviation)	none, the flight is not permitted
5	Operating manual	1
6	Warranty card	1
7	Instrument case	1