

# Single channel | E75.LVDT-H Inductive LVDT Micrometer

# Introduction

E75 LVDT inductance micrometer is a contact micrometer, through the inductive probe to detect the external displacement deformation, the measurement range of 0~1mm, accuracy is better than 100nm.

### Characteristics >>

- Measuring range 0~1mm
- Touch screen display
- Resolution of 0.05microns
- Contact measurement
- Touch screen control or PC software control

#### Applications >>

- Vibration measurement
- Position detection
- Precision positioning system

- Micro-displacement detection
- Optical fiber alignment and etc that require micro-displacement detection
- Length(depth, height, thickness, diameter, taper, etc.) measurement



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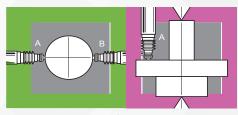
Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai



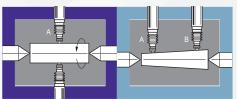
#### Technical Data >>

Туре	E75.LVDT-H
Measuring range(mm)	0~1
Channels	Single Channel
Resolution(µm)	0.05
Display update frequency	10/s
Screen type	Touch
Display range	Digital rebound
Sensor reading rate	200 readings per second
Analog output(mA)	Voltage or 4~20 optional
Operating temperature(° C)	5~50
Storage temperature(° C)	-20~50
Accuracy (percentage of readings)	0.05% or 0.1 $\mu$ m, whichever is larger
Repeatability (worst case)	0.15µm, the difference between the maximum and minimum values of the carbide surface was measured several times when the lateral force was used for the bearing
Repeatability (typical)	0.05µm, one standard deviation of multiple measurements of cemented carbide surface results (68%)
pretravel(mm)	0.15
After the trip(mm)	0.35
Spring driven (force measu- rement in middle position)	0.70N±20%
Temperature drift coefficient of	0.01%FS/°C
Probe life (number of runs)	100 million (without side load), more than 10 million in most applications
Dimensions(mm)	260.6×247.6×164
Probe shell material	Steel
Probe material	Tungsten carbide
Computer interface mode	RS-232, RS-485
Function	Data acquisition, storage, triggering, etc
Mass (g)	1285

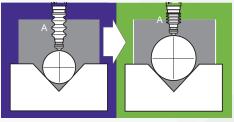
#### Typical Application >>



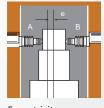
Diameter and flatness measure



Coaxiality and dimensionality measure

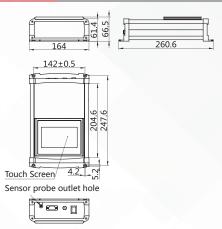


Scale factor

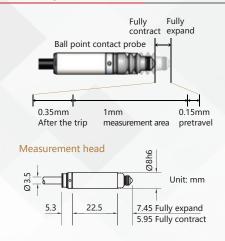


Eccentricity measure

### Control Panel >>



## Contact Digital Probe >>





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