



High Precision HBT probe

# **DP** series

# User's Guide

The contents of this manual could be different and it can be changed without notice. Please use this good after reading the manual thoroughly.

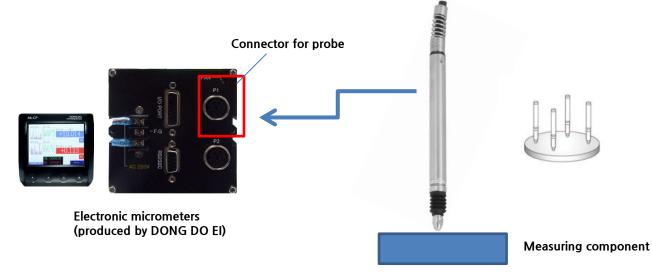
#### Product features & composition

depends on the measuring purpose.

# 1. Features

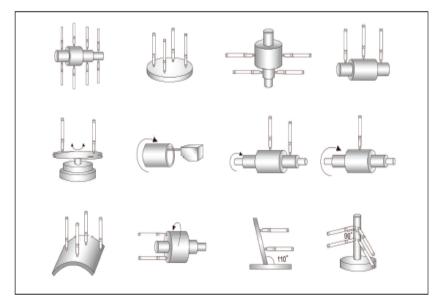


## 2. Connection



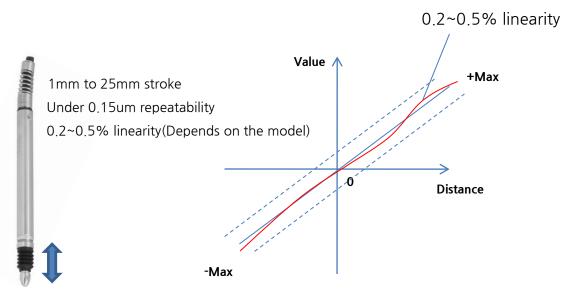
\*Probes are always used with Electronic micrometers. Elec. Micrometers converts the probe signal to the real value.

#### 3. Where to use



Probes are used to measure height, flatness, diameters, runout, angles, etc. The values are calculated in electronic micrometers.

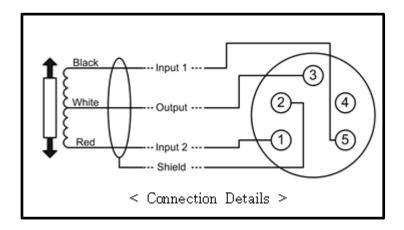
## 4. Repeatability & linearity



#### Specification

ITEM	DP-S1x	DP-S2x	DP-S4x	DP-10x	DP-15x	DP-25
Measuring range	±0.5mm	±1.0mm	±2.0mm	±5.0mm	±7.5mm	±12.5mm
Repeatability	≤0.15µm	≤0.15µm	≤0.15µm	≤0.4µm	≤0.5µm	≤0.5µm
Linearity error(FR)	≤0.2%	≤0.2%	≤0.5%	≤0.5%	≤0.45% at ±5.5mm	≤0.25% at ±8mm
Measuring Force(±25% at electrical zero position)	48g (0.5N)	48g (0.5N)	4~90g (0.04~0.9N)	30~80g (0.3~0.8N)	30~80g (0.3~0.8N)	180g (1.8N)
External Diameter	Ø8mm					Ø15mm
Operating Temp.	0~50°C					
Calibration Frequency(kHz) with 1.5V(rms)	13					16

The letter 'x' after the model name is an optional part and is filled with other characters such as blank, V, A, etc.



#### Caution

- 1. DP series HBT probes are used with electronic micrometers made in DONGDO EI CO., LTD. If it is used with others' amps, please check with the technical person.
- 2. Probes are very sensitive product which can measure in micrometer scale. So, should be used in a stable condition of temperature, humidity, vibration.
- 3. Probes are weak at an impact. Please control soft when it is installed on your system. And recommended to use Ø8-10 bush which is supplied with all probes.
- 4. No magnet should be around probes. It will be a cause of probe damage.
- 5. All of probes has one year warranty.
- 6. No warranty when the damages are from users fault.
- 7. Over 50 million measuring cycles are the normal life. But it's totally related with the conditions to use.

