HD-T200 AC Series
Spring-loaded Measuring Probe

The HD-T200 AC Series is a spring-loaded probe offering <0.25% linearity and <0.1% repeatability. It features a smooth linear bearing return, hardened shaft for extended life, built-in EMI shielding, PU drag-chain cable, and M2.5 interchangeable tip. Available in 10–200 mm strokes (customizable), with IP65, -20℃ to 85℃ operation, and >10^7 cycle life. Ideal for dimensional gaging, online inspection, high-repeatability comparison, and vessel deformation monitoring.



FEATURES

- Smooth linear bearing return, no stick
- Honed shaft & bearing for high repeatability
- Hardened shaft for longer service life
- Built-in shielding against EMI
- PU cable for drag-chain applications
- Standard M2.5 tip, easy replacement

GREAT FOR

- Dimensional gaging
- Online parts inspection
- High-repeatability gaging
- Vessel deformation monitoring

SPECIFICATIONS

Performance

Code	Stroke Range (mm)	Sensitivity,mV/V/mm
HD-T200-100-AC	10	100
HD-T200-150-AC	15	60
HD-T200-200-AC	20	50
HD-T200-250-AC	25	45
HD-T200-300-AC	30	35
HD-T200-500-AC	50	20
HD-T200-750-AC	75	16
HD-T200-1000-AC	100	10
HD-T200-1500-AC	150	8
HD-T200-2000-AC	200	6

Electrical

Power s Supply	3 V rms(1~7V rms Optional)
Input Frequency	2.5KHz (400~10KHz Optional)
Zero voltage	< 20mV
Non-linearity (maximum)	<0.25%
Repeatability	< 0.1%
Operating Temperature	-20℃...85℃
TC of Sensitivity	< 0.01%℃
Structure	Spring-loaded
Wiring	6-core Shield cable
Shock	1000g,11ms
Vibration	20g@2000Hz
Displacement Cycle	> 10^7 cycles
Springback Force	250g (Customizable)
Mechanical Response	10Hz~200Hz@20℃

All values are nominal unless otherwise noted. Dimensions are in mm unless otherwise noted

FR: Full Range is the stroke range, end to end; FR= S for 0 to S stroke range

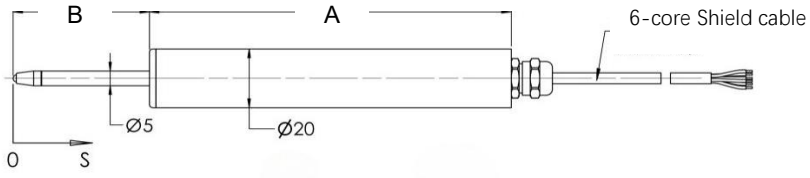
FRO (Full Range Output): Algebraic difference in outputs measured at the ends of the range

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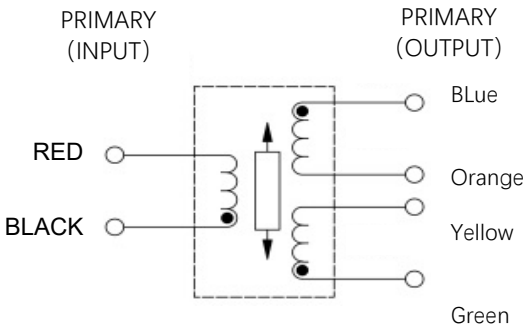
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

Dimension [mm]

Code	Dim "A"	Dim "B"
HD-T200-100-AC	74	23
HD-T200-150-AC	85	28
HD-T200-200-AC	91	33
HD-T200-250-AC	103	38
HD-T200-300-AC	114	43
HD-T200-500-AC	161	63
HD-T200-750-AC	204	88
HD-T200-1000-AC	249	113
HD-T200-1500-AC	344	163
HD-T200-2000-AC	411	213



Wiring



ORDERING INFORMATION

HD - T 200 - 100 - AC

Structure	
T	Spring-loaded

Outer Diameter	
200	20mm

Output	
AC	AC output

Stroke Range	
Code	Stroke
100	10mm
150	15mm
200	20mm
250	25mm
300	30mm
500	50mm
750	75mm
1000	100mm
1500	150mm
2000	200mm
Customizable Range	

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