HD-T200 DC Series
Spring-loaded Measuring Probe

The HD-T200 DC Series is a spring-loaded LVDT probe with integrated signal conditioning, providing direct DC voltage or current output (0-5V, 0-10V, ±5V, ±10V, 2-10V, or 4-20mA) for easy PLC integration. It offers 0.5 µm accuracy, <0.25% linearity, <0.1% repeatability, and a smooth linear bearing return with hardened shaft for long life. Available in 10–200 mm strokes (customizable), with IP65, -20°C to 85°C operation, >10^7 cycle life, M12 connector, and 13–28VDC or ±15VDC supply. 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)
HD-T200-100-XX	10
HD-T200-150-XX	15
HD-T200-200-XX	20
HD-T200-250-XX	25
HD-T200-300-XX	30
HD-T200-500-XX	50
HD-T200-750-XX	75
HD-T200-1000-XX	100
HD-T200-1500-XX	150
HD-T200-2000-XX	200

Electrical

Power s Supply	±15VDC	13~28VDC
Output Singal	±5V/±10V	0-5V/0-10V/2-10V/4-20mA
Non-linearity (maximum)	<0.25%	
Repeatability	0.10%	
Operating Temperature	-20℃...85℃	
TC of Sensitivity	< 0.01%℃	
Structure	Spring-loaded	
Wiring	M12 Connector	
Shock	1000g,11ms	
Vibration	20g@2000Hz	
Displacement Cycle	> 10^7 cycles	
Springback Force	250g (Customizable)	
Mechanical Response	10Hz~200Hz@20℃	

Note:

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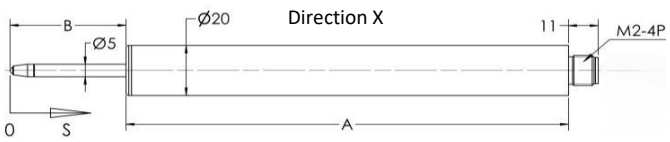
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

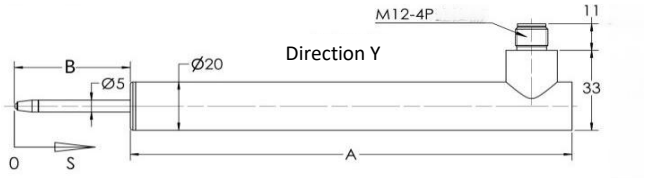
Dimension [mm]

Code	Dim "A"	Dim "B"
HD-T200-100-AC	99	23
HD-T200-150-AC	110	28
HD-T200-200-AC	116	33
HD-T200-250-AC	128	38
HD-T200-300-AC	139	43
HD-T200-500-AC	186	63
HD-T200-750-AC	229	88
HD-T200-1000-AC	274	113
HD-T200-1500-AC	369	163
HD-T200-2000-AC	436	213

Wiring

Connector	Output Singal	Wiring
M12	0-5V/0-10V/2-10V/ 4-20mA/ ±5V/±10V	Pin1 Brown Pin2 White Pin3 Blue Pin4 Black





ORDERING INFORMATION

HD - T 200 - 100 - X - 0-5V

Structure	
T	Spring-loaded

Outer Diameter	
200	20mm

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	

Output
0-5V
0-10V
2-10V
±5V
±10V
4-20mA

Direction of wiring	
X	Axial outlet
Y	90° outlet

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