

GWD 10

Displacement transducer



The displacement transducer GWD 10 is designed to provide maximum performance benefits within an extremely compact body diameter of 9.5 mm, with stroke lengths from 10 to 100mm. In most cases it is applied in fissuremeters and automatical measuring heads, type MA.

Technical data					
Electrical stroke E:	10 mm	20 mm	30 mm	50 mm	100 mm
Independent linearity:	± 0,5 %	± 30 mm	± 0,35 %	± 0,25 %	± 0,15 %
Applied voltage maximum:	8.9 Vdc	17.9 Vdc	44 Vdc	74 Vdc	
Resolution:	Virtually infinite				
Hysteresis (repeatability):	Less than 0.01 mm				
Operational temperature:	- 30 to +100 °C				
Operating mode:	Voltage divider only				
Protection type:	IP 66				
Wiper circuit impedance:	Minimum of 100 x track resistance or 0.5 MΩ (whichever is greater)				
Operating force maximum					
sealed:	300 gf in horizontal plane				
unsealed:	100 gf in horizontal plane				
Life at 250 mm per second:	Typically greater than 100 million operations (50 x 10 ⁶ cycles) at 25 mm stroke length				
Dither life:	200 million operations (100 x 10 ⁶ cycles) at ±0.5 mm, 60 Hz				
Shaft seal life:	20 million operations (10 x 10 ⁶ cycles)				
Shaft velocity maximum:	max. 2.5 m/s				
Vibration:	RTCA 160 D 10 Hz to 2 kHz (random) @ 4.12 g (rms) - all axes				
Shock:	40 g 6 mS half sine				