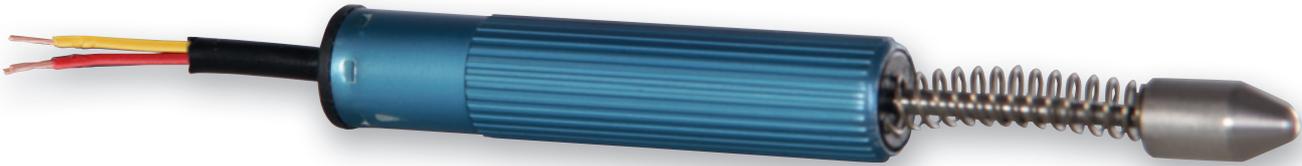


# GWD 10

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	50 mm	100 mm
Independent linearity:	± 0.5 %	± 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 50			
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 <sup>6</sup> cycles) at 25 mm stroke length			
Dither life:	200 million operations (100 x 10 <sup>6</sup> cycles) at ±0.5 mm, 60 Hz			
Shaft seal life:	20 million operations (10 x 10 <sup>6</sup> 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			