TESA Axial Probes

Standard Probes

Universal probes for common but constraining applications.

- 8 mm diameter probe housing. Can be clamped over its entire length.
- Measuring bolt mounted on a ball bearing.
- Both the probe housing and ball-bearing guide are separate from one another, so that the measuring bolt moves easily even if the probe is not clamped appropriately.
- Degree of protection IP65 according to IEC 60529.
- Wide range of accessories including measuring inserts, spring sets, etc.
- LVDT probes compatible with measuring equipment from other makers available on request.

✓

DIN 32876 Part 1

See in the table

Any position of use

8 mm dia. fixing shank. Ball-bearing measuring bolt.

Distance from electrical zero of both stops is either adjustable (downward) or depending on the position of the lower stop (upward).

Interchangeable measuring insert with a 3 mm dia. tungsten carbide ball tip plus M2,5 thread.

2 m long cable. DIN 45322 5-pin connector.

Nickel-plated housing. Stainless steel measuring bolt, hardened.

Sealing bellows made from resistant nitrile or high-resistance elastomer (Viton)

Moved mass 6 g

13 kHz (± 5%) drive frequency. Highest mechanical frequency to 60 Hz.

0,15 µm/ °C or 0,2 µm / °C for GTL 21 and GTL 211

20 ± 0,5°C

-10°C to 65°C 10°C to 40°C for GT 21 HP

80%

IP65(IEC 60529), IP64 for GT 21 HP

Shipping packaging

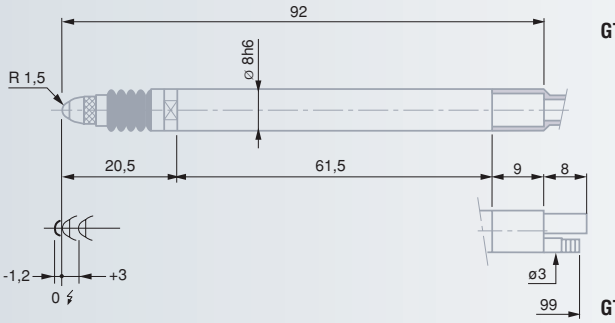
Identification number

Inspection report with a declaration of conformity

GT 21 and GTL 21 probes with axial cable exit

No		Measuring range (mm)	N*	Bolt retraction	Sealing bellows
Standard probes					
03210904	**GT 21**	± 2	0,63	mechanical	nitrile
03210905	**GT 21**	± 2	1,0	mechanical	nitrile
03210906	**GT 21**	± 2	1,6	mechanical	nitrile
03210907	**GT 21**	± 2	2,5	mechanical	nitrile
03210908	**GT 21**	± 2	4,0	mechanical	nitrile
03230057	**GTL 21**	± 2	0,63	mechanical	nitrile
03230072	**GTL 211**	± 2	0,63	vacuum	Viton
High-precision standard probes					
03230036	**GT 21 HP**	± 0,2	0,63	mechanical	nitrile

* Nominal value at electrical zero, max. ± 25%.Valid in upright assembly position, with downward oriented measuring bolt, as well as in static measuring.



GT 21/GTL 21

GTL 211

GT 21 **GTL 21**

	Lower stop of the measuring bolt**, adjustable from... mm	to mm	ex-factory mm	mm	µm	µm	µm***	Technical data sheets
GT 21	–2,2	0,1	–1,2	4,3	0,01	0,02	$0,2 + 3 \cdot L^3$	03200249
GTL 21	–2,2	0,1	–1,2	4,3	0,01	0,02	$0,2 + 2,4 \cdot L^2$	03200391
GTL 211	–2,2	0,1	–1,2	4,3	0,01	0,02	$0,2 + 2,4 \cdot L^2$	03200435
GT 21 HP	–2,2	0,1	–1,2	4,3	0,01	0,01	$0,07 + 0,4 \cdot L$	03200264

** Distance from electrical zero. *** Linearity related max. perm. errors (L in mm).