

TESA Axial Probes with Measuring Bolt Activation by Pneumatic Pressure

Standard and LVDT Probes

These probes are intended for use with measuring devices providing fully or half-assisted inspection routines.

Compatible with measuring equipment from other makers (see page N-14).



DIN 32876 Part 1

See in the tables

Axial probes usable in any position

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

Both lower and upper stops are fixed.

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

2 m long cable.

Standard probes with a 5-pin DIN 45322 connector, LVDT probes not included.

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

Viton rubber bellows in high-resistance elastomer

Moved mass 6 g

13 kHz (± 5%) drive frequency.

For LVDT probes, see on pages N-12 and N-13.

Highest mechanical frequency to 60 Hz.

0,2 µm/°C

20 ± 0,5 °C

-10°C to 65°C

80%

IP65 (IEC 60529) or IP50 for GTL 212-A and GTL 222-A

Shipping packaging

Identification number

Inspection report with a declaration of conformity

GT 212 probes with axial cable exit

			Measuring range (mm)	N*	Measuring bolt activation	Sealing bellows
<i>Standard probes</i>						
03230060	GTL 212	± 1,5	1,2	▼	▲	Viton
03230067	GTL 212-A	± 1,5	0,2	▼	▲	none

GT 222 probes with radial cable exit

			Measuring range (mm)	N*	Measuring bolt activation	Sealing bellows
<i>Standard probes</i>						
03230054	GTL 222	± 1,5	1,2	▼	▲	Viton
03230063	GTL 222-A	± 1,5	0,2	▼	▲	none
<i>LVDT probes</i>						
S32020269	GT 222 LVDT	± 1,5	1,2	▼	▲	Viton

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

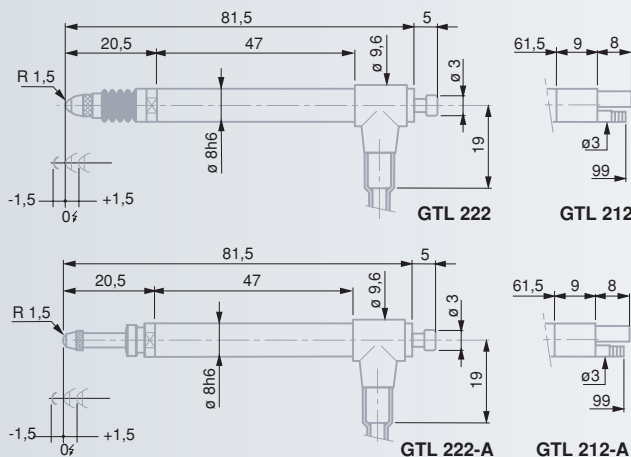
▼ Downward movement of the measuring bolt activated by pneumatic pressure.
▲ Upward movement of the measuring bolt activated under the spring force only.



GTL 222



GTL 212-A



	Air pressure (bar)	mm	µm	µm	µm***	Technical data sheets
	nominal	maximum				
GTL 212	0,7	1,0	3,2	0,015	0,02	0,2 + 2,4 · L ² 03200413
GTL 212-A	0,25	6,0	3,2	0,015	0,02	0,2 + 2,4 · L ² 03200430
GTL 222	0,7	1,0	3,2	0,015	0,02	0,2 + 2,4 · L ² 03200393
GTL 222-A	0,25	6,0	3,2	0,015	0,02	0,2 + 2,4 · L ² 03200422
GT 222 LVDT	0,7	1,0	3,2	0,15	0,15	4,5****

*** Linearity related max. perm. errors (L in mm).

**** With reference to the 3 mm measuring span (measuring range ± 1,5 mm).



TESA Long-Travel Probes with Measuring Bolt Activation by Pneumatic Pressure

Standard Probes

Probes intended for use with measuring devices providing fully or half-assisted inspection routines.

Compatible with measuring equipment from other makers (see page N-14).



GT 282



GT 272-A

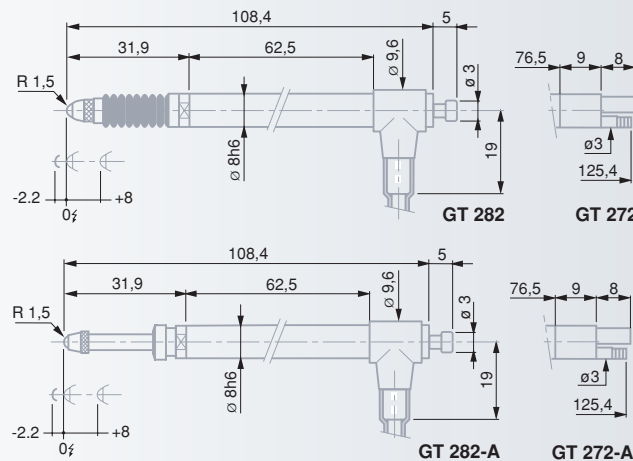
GT 272 probes with axial cable exit

		Measuring range (mm)	Upper travel (mm)*	N**	Measuring bolt activation	Sealing below		
<i>Standard probes</i>								
03230061	GT 272	± 2	8,1	1,0	▼ ▲	Viton		
03230068	GT 272-A	± 2	8,1	0,85	▼ ▲	none		

GT 282 probes with radial cable exit

		Measuring range (mm)	Upper travel (mm)*	N**	Measuring bolt activation	Sealing below		
<i>Standard probes</i>								
03230053	GT 282	± 2	8,1	1,0	▼ ▲	Viton		
03230069	GT 282-A	± 2	8,1	0,85	▼ ▲	none		

* Travel from the electrical zero up to the upper stop.
 ** Nominal value at electrical zero; max. deviation ±25%. Valid in upright assembly position with downward oriented measuring bolt, as well as in static measuring.
 ▼ Downward movement of the measuring bolt activated by pneumatic pressure.
 ▲ Upward movement of the measuring bolt activated under the spring force only.



		Air pressure (bar)	mm	µm	µm	µm***	Technical data sheets	
		nominal						
GT 272		1,1	10,3	0,05	0,05	0,2 + 3 · L ³	03200414	
GT 272-A		1,0	10,3	0,05	0,05	0,2 + 3 · L ³	03200431	
GT 282		1,1	10,3	0,05	0,05	0,2 + 3 · L ³	03200390	
GT 282-A		1,0	10,3	0,05	0,05	0,2 + 3 · L ³	03200432	

*** Linearity related max. permissible errors (L in mm).

- ✓
- DIN 32876 Part 1
- See in tables
- Axial probes usable in any position
- 8 mm dia. fixing shank. Ball-bearing measuring bolt. Both lower and upper stops are fixed.
- Interchangeable insert with a 3 mm dia. carbide ball tip. M2,5 thread. 2 m long cable. 5-pin DIN 45322 connector.
- Nickel-plated housing. Stainless steel measuring bolt, hardened.
- Viton rubber bellows in high-resistance elastomer
- Moved mass 8 g
- 13 kHz (±5%) drive frequency. Highest mechanical frequency 60 Hz.
- 0,15 µm/°C
- 20 ± 0,5°C
- 10°C to 65°C
- 80%
- IP65 (IEC 60529) or IP50 for GT 272-A plus GT 282-A
- Shipping packaging
- Identification number
- Inspection report with a declaration of conformity

TESA Probes with Extended Measuring Range and Bolt Activation by Pneumatic Pressure

Standard Probes

Probes intended for use with measuring devices providing fully or half-assisted inspection routines.

Compatible with measuring equipment from other makers (see page N-14).



DIN 32876 Part 1

See in tables

Axial probes usable in any position

8 mm dia. fixing shank. Ball-bearing

measuring bolt. Both lower and upper stops are fixed.

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

Cable length: 2 m. 5-pin DIN 45322 connector.

Nickel-plated housing.

Stainless steel measuring bolt, hardened.

Viton rubber bellows in high-resistance elastomer

Moved mass 8 g

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

0,09 µm/ °C

20 ± 0,5°C

-10°C to 65°C

80%

IP65 (IEC 60529) or IP50 for GT 612-AA plus GT 622-A

Shipping packaging

Identification number

Inspection report with a declaration of conformity

GT 612 probes with axial cable exit

No	Measuring range (mm)	N*	Measuring bolt activation	Sealing bellows
03230062 GT 612	± 5	2,0	▼ ▲	Viton
03230070 GT 612-A	± 5	1,0	▼ ▲	none
03230097 GT 612-AA	± 5	0,3	▼ ▲	none

GT 622 probes with radial cable exit

No	Measuring range (mm)	N*	Measuring bolt activation	Sealing bellows
03230055 GT 622	± 5	2,0	▼ ▲	Viton
03230071 GT 622-A	± 5	1,0	▼ ▲	none

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

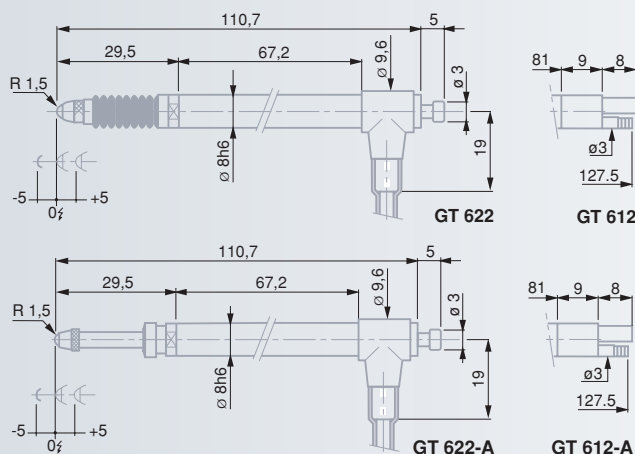
▼ Downward movement of the measuring bolt activated by pneumatic pressure.
▲ Upward movement of the measuring bolt activated under the spring force only.



GT 622



GT 612-A



	Air pressure (bar) nominal	Air pressure (bar) maximum	mm	µm	µm	µm**	Technical data sheets
GT 612	1,1	1,5	10,3	0,05	0,05	1 + 4 · L	03200415
GT 612-A	1,0	6,0	10,3	0,05	0,05	1 + 4 · L	03200433
GT 612-AA	0,3	2,0	10,3	0,05	0,05	1 + 4 · L	03200537
GT 622	1,1	1,5	10,3	0,05	0,05	1 + 4 · L	03200394
GT 622-A	1,0	6,0	10,3	0,05	0,05	1 + 4 · L	03200434

** Linearity related max. permissible errors (L in mm).

