



Probes with Axial Movement, $\varnothing 8$ mm

			Measuring range, mm	Measuring bolt travel, mm	Cable output	Bolt retraction	Sealing bellows
	03230001	GT 41	$\pm 0,3$ mm	0,7	Axial	None	Nitrile
	03230002	GT 42	$\pm 0,3$ mm	0,7	Radial	Vacuum	Nitrile
	03230035	GT 43	± 1 mm	2,1	Axial	Mechanical	Viton
	03230017	GT 44	± 1 mm	2,1	Radial	Vacuum	Viton

Unbranded Axial Probes with Measuring Bolt Mounted on a Ball-bearing

	96410012	410	± 1 mm	2,5	Axial and radial	Mechanical	Nitrile
	96160013	160	± 1 mm	3,3	Axial	Mechanical	Viton
	96430029	430	$\pm 0,5$ mm	1,25	Axial	Mechanical	Nitrile
	96441041	451	$\pm 0,5$ mm	2,10	Radial	Mechanical	Nitrile

Probe with Inclinable Lever

	03210802	GT 31	$\pm 0,3$ mm	0,7	Angled	Without	Without bellows
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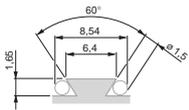
GT31 Lever Probes ± 0,3 mm, 0,3 mm Measuring Travel, Inclinable Lever



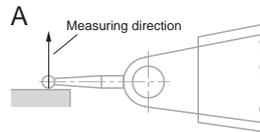
GT 31 with lever in perpendicular position

Well suited for use where probes with axial movement measuring bolts are inconvenient for measurements.

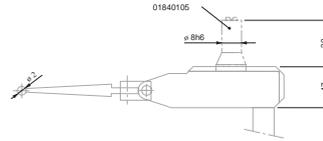
- Inclinable lever for measuring in two directions.
- Balanced lever system on ball-bearing.
- Interchangeable measuring insert, with carbide ball tip, inclinable through to 180°.
- Automatic reversal of the probing direction while the indication remains unchanged.
- Protected against shocks by 2 safety clutches.
- One-piece housing provided with 2 dovetails.
- Level of protection: IP40 as per IEC 60529.



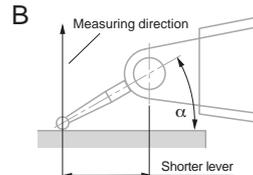
GT 31



GT 31
Figure A - the leverage matches 1:1, no correction of the measured value needed



GT 31 side view and top view



GT 31
Figure B - the leverage is no longer 1:1, correction of the measured value is needed.

Note
(Fig. A) With the insert lying parallel to the workpiece surface, the leverage matches 1:1. Therefore, no correction of the measured values is needed.
(Fig. B, angle α) Any other position will change the effective lever length, so that read values must be corrected. In this connection, please consult the instruction manual.

	No	=	Measuring range, mm	Nominal measuring force*, N	Lever retraction	Sealing bellows
03210802	GT 31	± 0,3	0,1	Without	Without bellows	
03210801	GT 31	± 0,3	0,02	Without	Without bellows	
03210803	GT 31	± 0,3	0,1	Without	Without bellows	

	=	Measuring lever travel, mm	Max. permissible error for deviations in linearity, μm (L in mm)	Repeatability, μm	Hysteresis, μm	Setting of lower stop of the measuring insert***, mm	Cable output	Data sheet No.
GT 31	0,7	$0,2 + 50 \cdot L^2$	0,1	0,25	Fixed lower and upper stops	Angled	03200266	

* Electrical zero (N) ± 25 % deviation limit. Valid in vertical mounting position, measuring bolt lowered and in static measuring.
** For an amplitude of 10 % to the last value of the measuring range.
*** Distance from electrical zero.

- DIN 32876 Part 1
- ± 0,3 mm
- All-metal housing, matt-chromium finish
- 2 dovetail attachments for clamping. Both lower and upper stops are fixed. Stainless steel measuring stem. Interchangeable measuring inserts. Carbide ball tip Ø 2 mm. Cable length: 2 m. DIN 45322, 5 pin connector. Other measuring inserts available as optional accessories..
- Supply frequency: 13 kHz (± 5 %) Max. mechanical frequency**: 25 Hz.
- 20 ± 0,5°C
- 5°C to 60°C
- 80 %
- Protection level: IP40 (IEC 60529)
- Mobile weight: 12 g
- Transport packaging
- Identification number
- Declaration of conformity

