

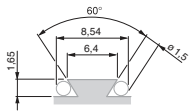
## GT31 Lever Probes ± 0,3 mm, 0,3 mm Measuring Travel, Inclinable Lever



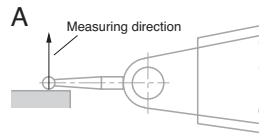
GT 31 with lever in perpendicular position

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.

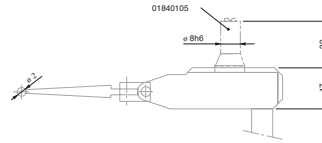


GT 31

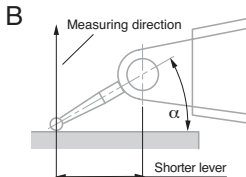


GT 31

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  $\alpha$ ) Any other position will change the effective lever length, so that read values must be corrected. In this connection, please consult the instruction manual.

			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	0,2	Without	Without bellows	

	Measuring lever travel, mm	Max. permissible error for deviations in linearity, $\mu\text{m}$ (L in mm)	Repeatability, $\mu\text{m}$	Hysteresis, $\mu\text{m}$	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
- 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  $\varnothing$  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.
- $20 \pm 0,5^\circ\text{C}$
- Protection level: IP40 (IEC 60529)
- Mobile weight: 12 g

