

INTERAPID 312 Dial Test Indicators

Very large measuring span – Ideal for inspecting all significant size variations, e.g. on the surface plate – Measure position, form and shape errors.

- Additional revolution counter for safe reading.
- Bidirectional measuring with automatic reversal inside the movement.
- Thereby pointer rotation is constant.
- Jewelled movement with rubies.
- Ball-bearing lever system with measuring insert swivelling through 210°.
- Full-metal construction giving outstanding robustness.
- Monobloc housing with mounted dovetail attachments as well as a 4 mm swivelling shank.



Regular Model

Time-tested dial test indicator with dial face mounted parallel to the insert's axis.

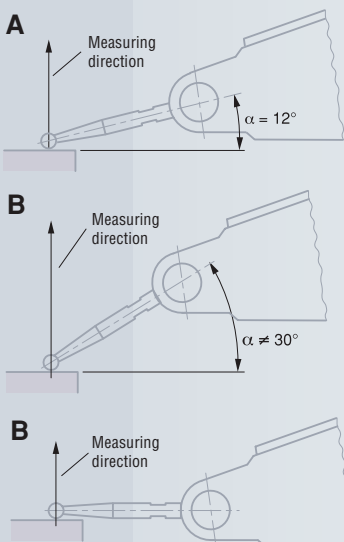
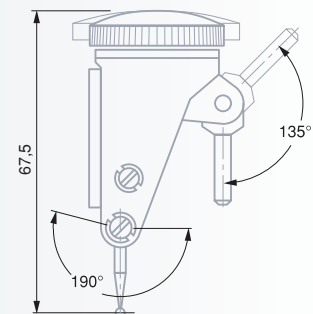
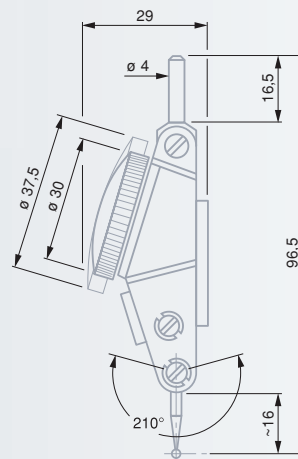
Perpendicular Model

Dial test indicator with dial face mounted at right angle to insert's axis.

Stylus insert with angular position of 12°

All models INTERAPID 312 are designed to give a true reading when the angle between the stylus and the workpiece surface is 12° (Fig. A).

In any other measuring position, including parallel position of the stylus against the workpiece surface, read values have to be corrected accordingly (Fig. B). With regard to this, also read in the instruction manual.



Permissible limits of a metrological characteristic (MPE/MPL)

	0,01 mm		0,002 mm	
	Pointer Rev 1	2	Pointer Rev 1	2
Deviation range, f_e	10 μm	20 μm	4 μm	8 μm
Total deviation range, f_{ges}	13 μm	23 μm	6 μm	10 μm
Repeatability limit, f_w	3 μm		1 μm	
Max. hysteresis, f_h	3 μm		2 μm	
Measuring force	0,12 N		0,25 N	

INTERAPID 312 Regular Models

						
 mm						
074111366	0,01	1,6	37,5	0 ÷ 40 ÷ 0	16,5	
074111367	0,01	1,6	30	0 ÷ 40 ÷ 0	16,5	
074111368	0,002	0,4	37,5	0 ÷ 10 ÷ 0	15,2	
074111369	0,002	0,4	30	0 ÷ 10 ÷ 0	15,2	
 in						
074111370	0.0005	0.060	1.5	0 ÷ 15 ÷ 0	0.65	
074111371	0.0005	0.060	1.2	0 ÷ 15 ÷ 0	0.65	
074111965	0.0005	0.060	1.5	0 ÷ 15 ÷ 0	2.675	
074111374	0.001	0.060	1.2	0 ÷ 15 ÷ 0	0.65	
074111372	0.0001	0.016	1.5	0 ÷ 4 ÷ 0	0.65	
074111373	0.0001	0.016	1.2	0 ÷ 4 ÷ 0	0.65	



Rotating dial

Very low measuring force (see table on page G-7)

Lever system with friction drive to prevent overload

Accuracy: see table on page G-7

Supplied in a plastic case along with:
1 steel insert with a 2 mm diameter, hardened.
1 key No. 01860307

Declaration of conformity



INTERAPID 312 Perpendicular Models

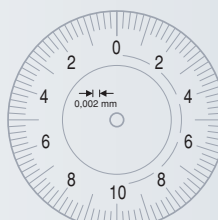
						
 mm						
074111375	0,01	1,6	37,5	0 ÷ 40 ÷ 0	16,5	
074111376	0,01	1,6	30	0 ÷ 40 ÷ 0	16,5	
 in						
074111377	0.0005	0.060	1.5	0 ÷ 15 ÷ 0	0.65	
074111378	0.0005	0.060	1.2	0 ÷ 15 ÷ 0	0.65	
074111958	0.0005	0.060	1.5	0 ÷ 15 ÷ 0	2.675	
074111379	0.001	0.060	1.2	0 ÷ 15 ÷ 0	0.65	
074111957	0.0001	0.016	1.5	0 ÷ 4 ÷ 0	0.65	



074111366



074111367



074111368



074111369