

Square type precision spirit level
Item No. 4220/100 – 4224/300

Manufacturer:
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Product:

Square type precision spirit level according to DIN 877. Stable version made of high-quality special casting, structurally lacquered. With 3 flat and prismatic (150°) sides and 1 flat, vertical side, for aligning horizontal and vertical surfaces and shafts. The measuring surfaces are finely ground. The device is equipped with ground and split longitudinal vial, transverse vial and full heat protection. The sensitivity of the longitudinal vial is indicated on the type label.

Technical information:

Length x height	mm	100x100	150x150	200x200	300x300
Width	mm	34	42	42	44
Weight of the water scale	kg	0.86	2.16	3.22	7.10
Item No. 4220	0.30 mm/m	X	X	X	X
Item No. 4221	0.10 mm/m	X	X	X	X
Item No. 4222	0.04 mm/m	X	X	X	X
Item No. 4223	0.02 mm/m	X	X	X	X
Item No. 4224	0.01 mm/m	-	-	X	X

(X = available)

Possible shaft diameter: 115.9 mm (max), 19.3 mm (min)

Special designs optional:

- with flat sides
- with magnets

Accessories:

Custom, robust plastic case for storage (422x/xxx/KK)

Additional service optional:

Measuring protocol

Working/storage temperature:

For precision mechanical spirit levels, the working temperature is 20°C (+/-5 K) and the storage temperature is -40°C to +70°C.

Tolerances according to DIN 877 depending on the sensitivity at L > 100 mm (L ≤ 100 mm):

0.3 mm/m:	T _{zul} =	60(120) microns/m,	DoE = 0.4 (0.8) Scd
0.1 mm/m:	T _{zul} =	20(40) microns/m,	DoE = 0.4 (0.8) Scd
0.04 mm/m:	T _{zul} =	10(10) microns/m,	DoE = 0.5 (0.5) Scd
0.02 mm/m:	T _{zul} =	10(10) microns/m,	DoE = 1.0 (1.0) Scd
0.01 mm/m:	T _{zul} =	10(10) microns/m,	DoE = 2.0 (2.0) Scd

T_{zul} = permissible tolerance, DoE = difference value on envelope, Scd = scale divisions