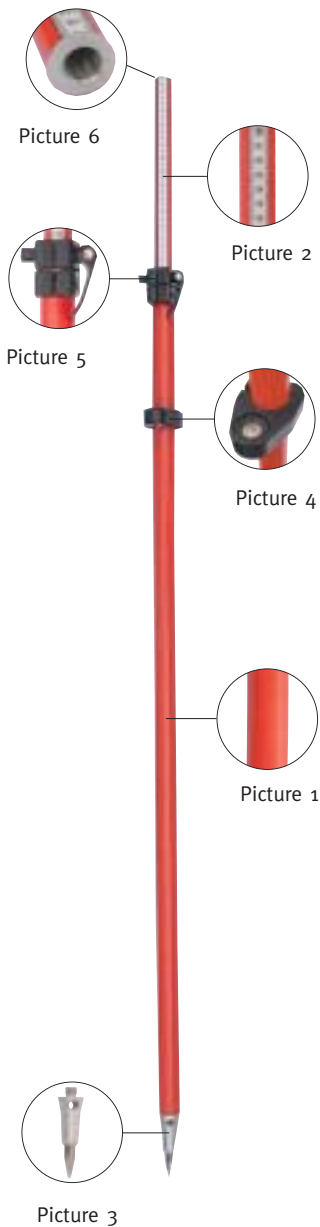


Telescopic prism pole S_04



With the S_04 we present for the first time a telescopic prism pole – developed on our own:

For its development, the same high demands were made as for the Universal prism pole Vektor: **light – stable – accurate.**

The outer and inner tube is made of an optimised blend of carbon/glass fibre (CFK/GKF). As on the inner tube which is made of compound material a graduation cannot be fixed permanently, we have taken over a successful development of the channel rule – a measuring band which is integrated in the material. So you have at your disposal a high quality graduation, which can be set by millimetre.

The S_04 is characterised by the following details:

- Length (to the prism center): 1,50 m – 2,50 m
- Weight: 1000 g
- Outer tube diameter: 32 mm, Inner tube diameter: 26 mm
- Very modern compound material with a high pliability
- cannot be deformed permanently
- no corrosion.
- comfortable handling also in cold temperatures.
- Picture 1: orange-red coated for the better visibility in the traffic, or on the construction site, etc.
- Picture 2: graduation on the inner tube: 13 mm, graduation in black colour on white ground, mm-numbers on both sides, cannot be removed, numbers with continuing cm-values
- Picture 3: removable pin (length 0,10 m) made of aluminium with a changeable pin of stainless steel and a large horizontal boring as support for screwing on or off.
- Picture 4: adjustable circular level made of glass in an aluminium casing, accuracy 30'
- Picture 5: centric clamping made of high quality synthetic material and an easy going eccentric lever
- Picture 6: 5/8" female thread made of aluminium to connect to the different reflector and prism adapters

The graduation of the prism pole is defined as follows:

Effective adapter length + tilting axis height of the prism = 150 mm.

Telescopic prism pole S_04, 2 parts, 1,50 m – 2,50 m Order-No. 5500 272,- €

Reflector and prism adapter

To connect to the prism pole, the adapters are always equipped with a 5/8" male thread on the bottom. The equipment on the top depends on the used reflector/prism type. Also, the display of the reflector/prism height depends on the right adapter length.

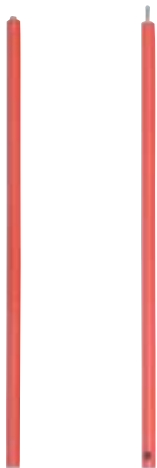


Reflector / prism			Adapter		Order-No.
Connection type	Tilting axis height	Example	Connection	Length	
Leica vertical bolt connection Ø 12 mm	60 mm (after bolt upper edge)	All Leica Prisms (except diff. miniprisms) Bohnenstingl, Leica, all types	Leica- vertical bolt (Ø 12 x 40 mm)	90 mm	5505.L 24,50 €
5/8" female thread	100 mm	Zeiss KTR 1	5/8" male thread	50 mm	5505.50 24,50 €
5/8" female thread	50 mm	Bohnenstingl 5/8", alle types	5/8" male thread	100 mm	5505.100 24,50 €

For reflectors and prisms with a tilting axis height upto 150 mm, all corresponding adapters can be delivered. Please specify reflector/prism type when requesting.

Adapter up to 150 mm length, 5/8" or Leica vertical bolt Ø 12mm Order-No. 5505.x 24,50 €

Accessories for prism poles



Extensions

Made of the same material as the pole S₀₄. Therefore extremely light and resistant. The extensions are made to be put in **between the adapter and the reflector or the prism.**

Length: 1,00 m

Tube- Ø: 26 mm

Bottom: 5/8" female thread, top: 5/8" male thread,

Weight: 300 g

Extension VS1

Order-No. 5503

80,- €

Bottom: Connection for Leica vertical bolt Ø 12 x 40 mm, Top: Leica vertical bolt Ø 12 x 40 mm,

Weight: 350 g

Extension VS 1W

Order-No. 5503.L

95,- €

Strut bipods

For quick and easy installation of the prism poles on even and uneven ground.



Bipod (Seco)

- Upper push button clamp
- Adjustable area of the legs: 1,05 – 1,80 m
- Open clamp for installing the poles from the side
- Can be used for poles with Ø 19 – 38 mm

Strut bipod, 2-legged, aluminium, red, 1,8 kg

Order-No. 2091.R

135,- €

Strut bipod, 2-legged, aluminium, yellow, 1,8 kg

Order-No. 2091.G

135,- €

Strut bipod, 2-legged, aluminium, carbon, black, 1,4 kg

Order-No. 2092

290,- €



Ranging pole tripod

Standard model, tribrach, with clamp on the ball-and-socket joint, height approx. 95 cm, legs PVC coated, luminous paint, weight approx. 1,5 kg.

Ranging pole tripod FS

Order-No. 2090

19,- €

Adjustable Base for prism poles

- ideal for regular control or adjustment of the circular level on prism poles.
- stable construction made of black powder coated aluminium.
- for installation on walls.
- plumbed positioning of the station marks by clamp screws.
Easy installation by plumbob or spirit level.
- secure pressure of the prism pole to the adjustment base by high-quality holding elastics with handles.
- suitable for prism poles from 0,80 m length and Ø 25-50 mm.
- incl. installation equipment
- Dimensions: 50 x 50 x 850 mm, weight 1,5 kg

Adjustment base JB

Order-No. 2260

145,- €



GPS Antenna pole

Newly developed high quality pole for GPS antennas.

Made of the same high tech material CFK/GFK as the outer tube (Ø 32 mm) of our prism pole S_04 with excellent material characteristics (see catalogue page 36). These are above all its low weight, its rigidity and long life. Besides, our pole can be easily recognized because of its signal-red colour, which means a lower potential of danger in the traffic.

All poles have a total length of 2,10 m and consist of a pin (0,10 m) and 2 sections with 1m length each.

Equipment:

- Pin can be screwed off (length 0,10 m), made of aluminium, with a changeable pin of stainless steel and large horizontal boring as support to screw in and off.
- Adjustable circular level made of glass in an aluminium casing, accuracy: 30'
- Connection between pin and meter-section is done by a standardized 5/8" thread
- 5/8" male thread for connection to the GPS antenna or adapter
- weight: 980 g

GPS antenna pole GS_04, 2-pieces, 2,10 m 5/8"	Order-No. 5450	255,- €
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Same as GPS pole GS_04, however with 2 additional moulding areas in the upper meter section. If the cable between antenna and field calculator is thread through this opening, it will be "cleared up".
Weight: 980 g

GPS antenna pole GaS_04, 2 pieces, 2,10 m, 5/8"	Order-No. 5451	275,- €
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The development of a surveying software supported by graphics also for surveying in the filed has lead to the use of relatively heavy field calculators (laptops, tablet-PCs etc.) A positioning of those calculators in the center of the GPS antenna pole was not yet possible. Eccentric positioning makes it more difficult to handle the pole. To solve this problem, we offer a modified upper meter section in a two-pieces design. It consists of a bow and a straight segment, 0,50m each.

The two shanks of the bow have a length of 0,2 m and consist of a stable aluminium profile.

On the lower shank, there is a ball joint with M8 thread. The corresponding holders for field calculators may be screwed on there (see catalogue page 47-51). This ball-joint construction allows to move on the bow shank. The center of the field calculator can therefore optimally be aligned to the vertical axis of the GPS pole and then fixed. Besides, the ball joint allows to turn and to incline the field calculator.

The straight segment has 2 moulding areas to position the cable.

GPS pole with calculator bow and M8 ball joint

Weight: 1850 g

GPS antenna pole BaS_04, 3-pieces, 2,10 m, 5/8"	Order-No. 5460	375,- €
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The calculator bow with M8 ball joint can be also obtained separately:

Weight 1000 g

GPS bow Ba_04, 0,50 m, 5/8"	Order-No. 5465	240,- €
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Accessories:

Extensions, CFK/GFK, Ø 32 mm, 5/8"l – 5/8"a

Extension VG 1, 100 cm, 350 g	Order-No. 5455	120,- €
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Extension VG 0,5, 50 cm, 250 g, without openings	Order-No. 5466	80,- €
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Extension VG 0,5, 50 cm, 250 g, with 2 cable openings	Order-No. 5467	100,- €
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Adapter with Leica vertical bolt (Ø 12x40mm) and 5/8" female thread to screw on the 5/8" male thread of the GPS pole, moulding areas for fork spanner (SW24) as support to screw on and off, total length: 60mm, weight: 85 g.

Adapter, 5/8"l – Leica vertical bolt Ø 12 x 40 mm	Order-No. 377.40	24,50 €
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Further adapters see catalogue page 59

Tripods for the GPS antenna pole same as for the telescopic prism pole S_04, see catalogue page 37

GPS Accessories

Level holder

for poles with \varnothing 32 mm (1 1/4 ") e.g. our prism and GPS pole S_04 or Trimble antenna pole; with adjustable circular level made of glass. Will be screwed onto the antenna pole and then adjusted.

Indispensable for GPS measuring with cm-accuracy!

Example:

Position adjustment of the GPS antenna on an antenna pole of 2 m length with a bubble distance of the circular level of 2 mm: 45° level: 29 mm; 10°-level: 6 mm.



Glass level 10'

Order-No. 3010.10

49,- €

Extensions for radio set (Radio modem)

The range of the GPS real time measurement will often be limited by the capacity of the radio modem used for the data transmission Base - Rover. A clear increase of the range can be achieved by setting the radio modem to a high level above ground. Normally, this is done by an extension on a tripod standing under the antenna.

Extensions

For use with tripod plate SP 5/8" a (see below).

Extension V2 made of a blend of fibre glass /carbon fibre with an exact length of 2 m. Very strong tube with \varnothing 44 mm, red protective coating and stable connection thread: bottom 5/8" female, top 5/8" male thread. Suitable for use under extreme conditions.

Extension V2 GFK/CFK

Order-No. 3052

237,- €

Telescopic extension made of GFK with yellow protective coating. Simple and effective clamping of the telescopic extension. Tube diameter 23/27 mm.

Length 0,9 m, extendable up to 1,5 m:

Telescopic extension 1,5

Order-No. 260.2

56,50 €

Length 1,6 m, extendable up to 3,0 m:

Telescopic extension 3,0

Order-No. 260.3

69,- €

Tripod plate

For use of extensions on all tripods with flat tripod head and 5/8" connecting thread. Stable construction made of anodised aluminium assures a strong connection with the tripod. Therefore, long extensions can be used also under windy weather conditions.

With the integrated circular level, that is set via the tripod legs, the extension can be put in a more or less plumbed position.

For extensions with 5/8" female thread:

Tripod plate SP 5/8" a

Order-No. 3020

38,50 €

For extensions with 5/8" male thread:

Tripod plate SP 5/8" i

Order-No. 3025

38,50 €





Telescopic and Range Poles made of GFK

GFK Telescopic Pole

For use as prism pole, extension or for measuring with DISTO, two-part pole, \varnothing 23/27 mm, without graduation. Made of fibre glass (GFK) with yellow protective coating, light construction. Stable clamp, simple to handle.

Available in 3 lengths: (please specify when ordering)

L1 = 0,5 m, extendible till 0,75 m **Order-No. 260.1-278.1** 54,— €
 L2 = 0,9 m, extendible till 1,5 m **Order-No. 260.2-278.2** 56,50 €
 L3 = 1,6 m, extendible till 3,0 m **Order-No. 260.3-278.3** 69,— €

bottom	top			
	Male thread 5/8" Order-No.	female thread 5/8" Order-No.	Leica vertical bolt 40 mm Order-No.	Male thread 1/4" for DISTO Order-No.
Female thread 5/8"	260	261	262	263
Leica connection for vertical bolt 27 mm	265	266	267	268
Leica connection for vertical bolt 40 mm	270	271	272	273
Point (V2A) not possible to unscrew	275	276	277	278

GFK Range Pole

Stable range pole made of fibre glass (GFK) for use with prisms and holders with standard connections (5/8", Leica) or with DISTO (1/4"). As extension, it has a 5/8" female thread on the bottom (point optional) or as prism pole and for DISTO surveying with range pole norm point. Length = 1,5 m, \varnothing 26 mm.



bottom	top			
	Male thread 5/8" Order-No.	female thread 5/8" Order-No.	Leica vertical bolt 40 mm Order-No.	Male thread 1/4" for DISTO Order-No.
Female thread 5/8"	280 49,— €	281 49,— €	282 49,— €	283 49,— €
Norm point	285 49,— €	286 49,— €	287 49,— €	288 49,— €

Point

Made of aluminium V2A with 5/8" male thread for poles with a 5/8" female thread (see above):

- GFK – telescopic range (Order-No. 260-263)
- GFK – range pole (Order-No. 280-283)



Point 5/8"	Order-No. 264	23,— €
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Level holder

For GFK telescopic poles and GFK Range poles (see above), with adjustable circular level. Can be screwed on the pole. Accuracy of the circular level: approx. 50'.



Level holder for GFK telescopic pole	Order-No. 279	28,— €
Level holder for GFK range pole	Order-No. 289	28,— €