

GENERAL FIELD EQUIPMENT

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P1.97

For planning and execution of environmental research, agricultural-, civil-, and rural engineering projects, etc. it is often required that the area concerned is carefully studied and surveyed. Because of the importance of this research it is necessary that reliable surveying equipment is used.

Eijkelpark Agrisearch Equipment included a great number of general field instruments in its package.

17.10 Double pentagon prism

The pentagon prism square with two prisms of 90° and 180° and a large field of vision, base area mirrored for slope. See through location between both prisms with yellow filter.

17.20 Measuring tape

Measuring tape holder with synthetic or stainless steel measuring tapes for distance measuring are supplied in various lengths. All measuring tapes meet the EC-regulations class II regarding tolerance, with an accuracy of approximately 2 mm on 10 m.

17.21 Measuring wheel

Precision measuring wheel with folding grip for distance measuring in the field. The counting mechanism is shockproof and fitted over the measuring wheel.

The meter can be calibrated and has a measuring range of 9999.99 m and can be read-out in cm. The tolerance is below 0.02%. The counting mechanism is driven without vibrations. The measuring wheel is supplied inclusive a case.

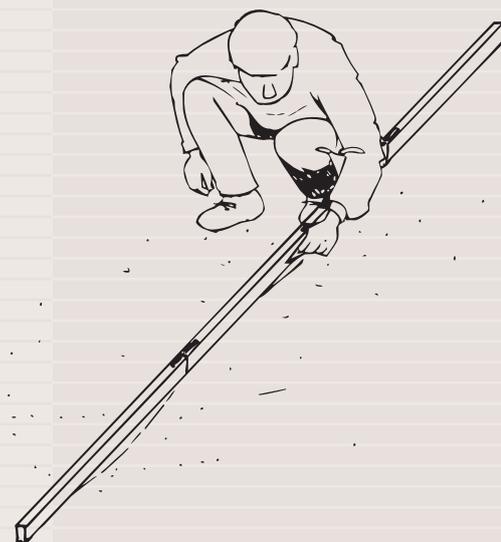
17.16 Tri-partite aluminium ruler

The aluminium ruler is used for accurate measuring in mm of the planeness of bare surfaces such as asphalt, concrete, gravel, floors of sports accommodations, etc. The aluminium ruler comes in three parts and is supplied inclusive measuring wedges and carrying bag. The overall length measures 3 meter, the range is 1-20 mm and the accuracy is 0.3 mm.

The distance is measured using the measuring wheel.



The planeness of the surface is accurately measured using the aluminium ruler.



Double pentagon prism



Measuring tape



Measuring wheel

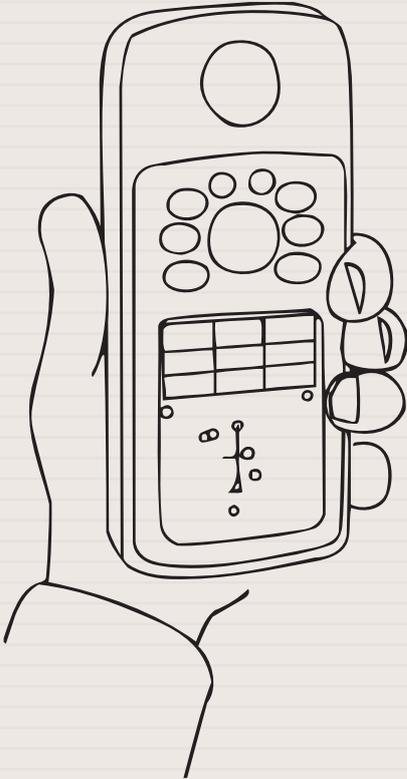


Tri-partite aluminium ruler



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The GPS-system is fitted with a clearly readable screen.



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17.27 Clinometer

Lightweight clinometer with an easily readable scale. The optical scales have a graduation from 0-90° and from 0-150°. Direct reading in 1° or 1% and estimate in 10 minutes or 1/5 of 1%.

17.32 Compass

Compass, usable for all 5 inclination zones, with a highly resistant case, which offers a strong protection to the capsule. With cm scale and sighting line of 11 cm when opened. The underlying mirror allows very simple sighting with a high accuracy of 1°. The needles are rotating on a sapphire bearings in antistatic fluid. With adjustable declination scale.

17.52 Global Positioning System, GPS 76

Accurate navigation in the field applying the Global Positioning System (GPS). A navigation system that uses satellite signals.

The GPS 76 is a manageable, lightweight, waterproof (and floating) instrument with a clearly readable LCD-screen. Navigation using up to 12 satellites, WAAS enabled (Wide Area Augmentation System = System of satellites and ground stations that provide GPS signal corrections), memory for up to 500 landmarks and 50 routes. With built-in database showing the location of towns and cities. Large user friendly control buttons and menu controlled software. Accuracy for position <15 meters. The accuracy of position can be increased to within 3 meters applying WAAS.



Clinometer



Compass



Global Positioning System, GPS 76



Art.no.	Description	Qty. in set	Art.no.	Description	Qty. in set
General field equipment (P1.97)			17.21	Measuring wheel, measuring capacity 9999.99 m, reading 1 cm, with foldable handle, incl. case	
	A number of field surveying instruments is included in our product range (to support field staff in their daily work).			Various geodetical instruments.	
17.10	Double pentagon prism square, complete with leather bag		17.27	Clinometer, liquid damped handclinometer, with a built-in parallaxfree lens, read-out in % or degrees (360° system), accuracy: top scale 5°, the precision scales 1° and on %-scale 1% by 0-70% and 2% by 70-150%, in bag	
	For vertical installation of the double pentagon prism you need:		17.32	Compass. Universal global system needle. Adjustable declination scale. Incl. clinometer and conversion table on the rear of the mirror. Scale 360 degr., 400 gon or 6400 mils.	
17.10.01	Metal plummet pole, suitable to install the double pentagon prism, incl. adapter, telescopic, length 100-170 cm		17.52	GPS navigation system (GPS76). Tracks up to 12 satellites continuously, to compute and up-date, position. Accuracy < 15 m, 95% typical. Incl. RS232 interface, in carrying case.	
17.16	Tri-partite aluminium ruler, measuring range 1 - 20 mm, total length 300 cm, standard set, in carrying bag				
**17.16.01	Tri-partite aluminium ruler, total length 3 m, flatness accuracy 0.3 mm	1			
**17.16.02	Measuring wedge for ruler, measuring range 0.5 - 20 mm	2			
**09.01.10	Carrying bag for field equipment, Ø 15x120 cm	1			
17.20	Measuring tapes:				
	Measuring tapes are available in various designs and length. The tapes keep the tolerances for the EC standard in accuracy class 11 (accuracy +/- 2 mm on 10 m). Measuring tapes with synthetic tape.				
17.20.01.20	Fibre glass measuring tape in metal frame, length 20 m, tape width 16 mm, graduation in cm				
17.20.01.30	Fibre glass measuring tape in metal frame, length 30 m, tape width 16 mm, graduation in cm				
17.20.01.50	Fibre glass measuring tape in metal frame, length 50 m, tape width 16 mm, graduation in cm				
	Measuring tapes with stainless steel tape.				
17.20.03.20	Stainless steel measuring tape with grip, length 20 m, tape width 13 mm, graduation in cm				
17.20.03.30	Stainless steel measuring tape with grip, length 30 m, tape width 13 mm, graduation in cm				
17.20.03.50	Stainless steel measuring tape with grip, length 50 m, tape width 13 mm, graduation in cm				
	The distance can also be measured with a (calibrateable measuring wheel, which is supplied incl. case.				