Repeater GPS System

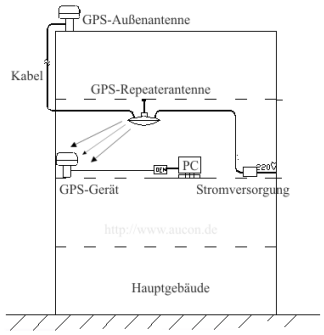
GPSRKL1A(Kit)

GPS Systems
for signal distribution

Abb1.

Abb2.

GPS Repeater GPSRKL1A for GPS L1



This Repeater GPS System is designated for transmission of GPS signals within buildings like factories, laborytories, testing benches, production halls, EMI chambers and alot more.
Please run the system only in closed rooms. Please ask your federal office if you have any questions about retransmission of GNSS frequencies in your country.

Technical datasheet:

Art.-No.:	GPSRKL1A-30-TF
Frequency:	1575 MHz +/- 15 MHz (L1-civil)
Polarisation:	R.H.C.P. (Right Handed Circular Pol.)
Gain:	35 dB(Antenna/Abb1.), 30 dB(Repeater/Abb2.)
VSWR:	< 2.0 : 1 (Antenna)
Cablelenght:	30 m (Rx antenna to Repeater)
Cabeltype:	LMR195 or others
Current supply:	230 Volt AC (power adapter included)
Consumption:	70 mA +/- 5 mA (total)
Impedance:	50 Ohm
Dimensions:	110 mm x 70 mm (Antenna Abb1.) 100 mm x 65 mm x 32 mm (Repeater only)
Weight:	200 g (Antenna), 880 g (Repeater)
Befestigung:	Screw mounting, Metal Stand
Conditions:	100 % waterproof (Antenna)
Temperature:	- 30 ° ~ + 80 ° C (Rx Antenna)
Delivery Content:	GPS-Repeater GPSRKL1-V-P230/5-TF, cable LMR195 TNC/TNC with 30 m, Receiving antenna, stainless steel pipe mount

The maximum distance from the repeater to the gps test object should within 8- 10 m. The emission is clubbed. The angle is around 60°. A bigger range and longer cables ares also available, but depend on the surroundings. You can run any number of gps systems within the range of the repeater.

GPSRKL1-120105_en

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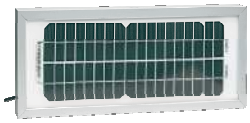
GPS- Systeme . Navigation . Ortung

Options:

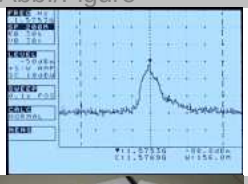
Hardware

Suitable for	Description	Art.-No.	Abb./Figure	Comments
All GNSS-Antenna systems	Surge protection kit with cable 3m	3050012		Recommended for roof Mounting, datasheet is available
"	Pipe mount Steel zinc-plated with 0,6 m length Colored as option in white, black, green	3010062		For mounting on a slab on the roof
"	Pipe mount Stainless steel with 0,6 m lenght	3020030	No figure	For mounting on a slab on the roof
RF cable with 10 mm diameter	Clamp mounting for one and/or two RF cables available	KAB-HA-1		For LMR400 (10 mm diameter, for mounting on frames, datasheet available
GPSRKLXXX	Special designed housing for GPSRKL1 Repeater	from 2/2012	No. figure.	Optisch ansprechendes beiges Gehäuse zum Einbau des GPSRKL1
GPSRKLxxx and AS47	Ruggedised case Adventure 83 (without contend)	9599162		Case with PU foam for GPSRKL1A, datasheet available
All GNSS-Antenna systems	Solar power kit with battery	from 2/2012		Solar power kit for GPS Repeater and Antenna networks, datasheet available

Software

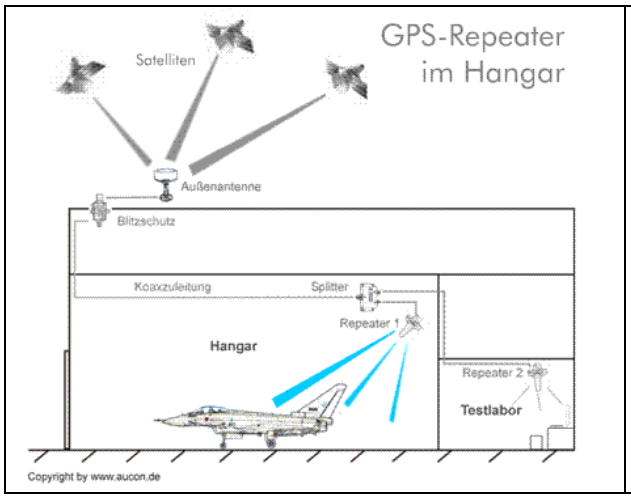
Suitable for	Description	Art.-No.	Abb./Figure	Comments
For GPSRKXLV and Metro	Not for GPSRKL1A available	-		Software for PC

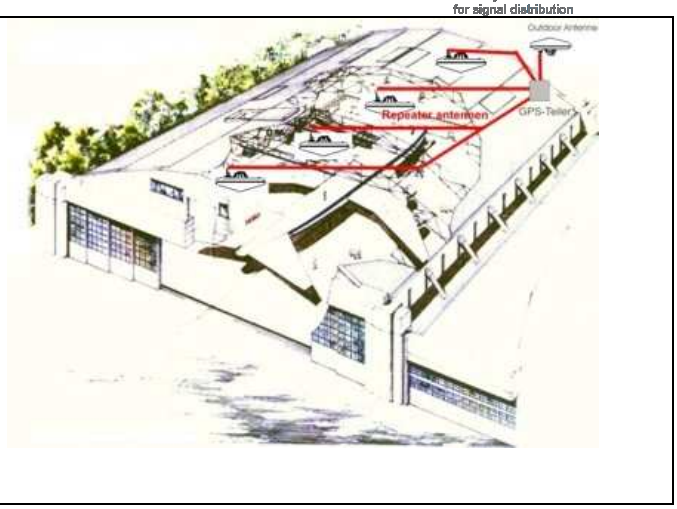
Service

Suitable for	Description	Art.-No.	Abb./Figure	Comments
GPSRKL types all frequencies	Adjustment of system based on EU-Norm EN ETSI	0002002		Only for customer specific systems, depends also on surroundings
All GNSS Systems	Preparation of test reports for GNSS networks	002000		Technical and pictural Documentation, Analysis of measurement results, Certificates, CoC, circuit diagram
All GNSS Systems	Measurement and testing of GPS systems	002010		In our laboratory or at site(depending on surroundings, mobile service with Spectrum Analyser Anritzu S332E)

Please also ask for our detailed brochure „ Service for GPS systems".

Setup und operation mode:





Pictures:

Please note for installation:

Mount the external Rx antenna on the roof of the building horizontally with the best visibility of the sky. Pull the coaxial cable before mounting through the metal stand. Mount the metal stand with screws on a firmly ground. Locate and mount the repeater element to the ceiling with its antenna facing against the testing bench. Please note that the reradiating element is not water resistant, so do not mount the element outdoor.
For the laying of RF cables please always use a big radius, especially for LMR400. The cables should never be creased. The cables should not be layed just off RF cables with strong emission(e.g. used for covering large areas with GSM signals).
Please use enough space between the repeater and other RF systems to avoid any kind of interference.

Important note for the general use of a repeater:

Ask your local federal office if you need a license for running a repeater in your country.

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