

# FG4449G00 active GPS 8x Power Splitter

**Active GPS antenna splitter for GPS L1 antenna signal with 8 outputs and signal amplification.**

System-internal power supply via GPS antenna cable

If only one GPS antenna for operating several GPS receivers can be installed (due to structural or other reasons), it is however possible to operate up to 8 GPS receivers with one common GPS antenna by using the active GPS antenna splitter 4449.

This solution is often used in the context of superstructures for conducting device tests in laboratories or testing stations.

The active GPS antenna splitter 4449 contains 8 outputs and a signal amplification.



The necessary voltage for operating the unit is supplied system-internally via the GPS antenna cable of the connected **hopf** GPS receivers plugged in the master output. No external power supply is needed to operate the unit.

The application's 8 signal outputs are subdivided in 2 output groups (output A and output B) with 4 outputs each. Each output group has one master output and three slave outputs.

The supply voltage for the two output groups is respectively fed by the **hopf** GPS receiver which is connected to the master output of the output group. Without system-internally supplied voltage via the master output of an output group no signal output via this group takes place.

## Technical Data:

General	
housing dimensions: (high frequency housing incl. mounting plate and connections)	149 x 242 x 30mm (D x W x H)
power supply: system-internally via connected <b>hopf</b> GPS receivers	4,5 - 7V DC
humidity:	95% non-condensing
protection of housing:	IP50
category of usage:	indoor, protected
MTBF value:	> 2,500,000 hours
weight:	approx. 1.2 kg
material	
high frequency housing:	aluminium
mounting plate:	plastics / PVC-CAW
connections	
connections: input / outputs	BNC-connector, other types of connections on request
electrical characteristics	
impedance:	input / outputs 50 ohm
frequency range:	GPS L1, 1575 MHz
band width:	± 50 MHz
power gain:	approx. 22 dB
temperature range	
operation:	-20° C to +80° C
storage:	-40° C to +85° C