

colinear Mobile Antenna for the 4m and TETRA Bands

DESCRIPTION

- External antenna whip mounted on the GPS-Combi mount.
 - Polyethylene-covered flexible whip.
 - Easily removable whip for car wash.
- GPS-antenna for fixed installations.
 - Full hemispherical coverage.
 - Built-in high-gain, low-noise amplifier.
 - Right-Hand Circular Polarization (RHCP).
 - 5 V supply voltage (3 V and 12 V respectively available on request).
 - DC supply via RF-connector.
 - Matching unit (BBMU) included.



ORDERING

Model	Product No.	Description
GPS-C 4/TETRA-S BBMU	132000139	MAX.ROOF THICKNESS 2.5 mm
GPS-C 4/TETRA-S BBMU/7mm	132000129	ROOF THICKNESS: 3.5 - 7.5 mm

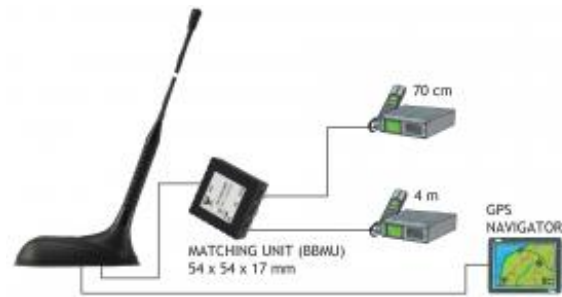
SPECIFICATIONS

Electrical		
Model	GPS-C 4/TETRA-S BBMU/...	GPS-COMBI MOUNT
Frequency	4 m: 74.2 - 87.5 MHz 70 cm: 380 - 400 MHz	
Antenna Type	Collinear mobile antenna	Active patch antenna
Max. Input Power	15 W	
Polarisation	Vertical	Circular
Pattern Type	Hemispherical	
Impedance	50 Ω	50 Ω
VSWR	74.2 - 77.7 and 84 - 87.5 MHz: = 2.5:1 380 - 400 MHz: = 2.0:1	
Gain (EIA RS-329-1)	4 m: approx. -3 dB 70 cm: approx. 1 dB (acc. to EIA RS-329-1)	
Cross Polar Attenuation	> 10 dB (typ.)	
Selectivity	> 45 dB down @ +/- 45 MHz	

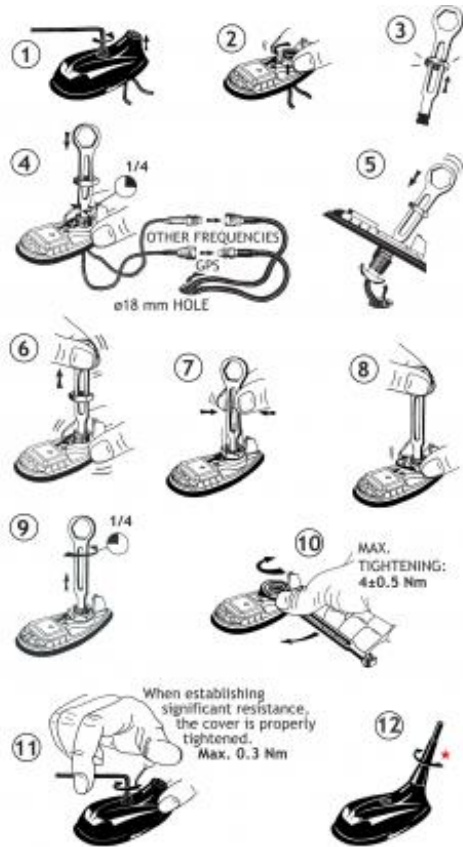
Mechanical	
Connection(s)	FME (male for GPS) + FME (female for mobile antenna)
Materials	Whip: Glass fibre whip with copper wire winding, polyethylene-covered Black-chromed brass Spring: Black-chromed stainless steel
Colour	Black
Max. Roof Thickness	Max. 2.5 mm or 3.5 - 7.5 mm
Height	670 mm / 26.38 in.
Weight	0.06 kg / 0.13 lb
Mounting	On the GPS-Combi mount

GPS Antenna	
P1dB (GPS Amplifier)	Approx. +7 dBm
Gain (GPS)	28 dBic in axial direction (typ.)
VSWR (GPS Amplifier)	< 2.0:1
Operating Temperature Range (GPS)	-35 to 75 °C
Installation Torque (GPS)	4 ± 0.5 Nm
Frequency (GPS)	1575 MHz
Weight (GPS)	0.114 kg / 0.25 lb
Power Supply (GPS)	5 ± 0.5 VDC (3 V resp. 12 V on request)
Current Consumption (GPS Amplifier)	0.025 mA
Dimensions (GPS)	Approx. 30 x 89 mm/ 0.9 x 2.9 in.
Colour (GPS)	Black
Materials (GPS)	Cu-nite brass, Stainless steel, Reinforced thermoplastic

ADDITIONAL DATA

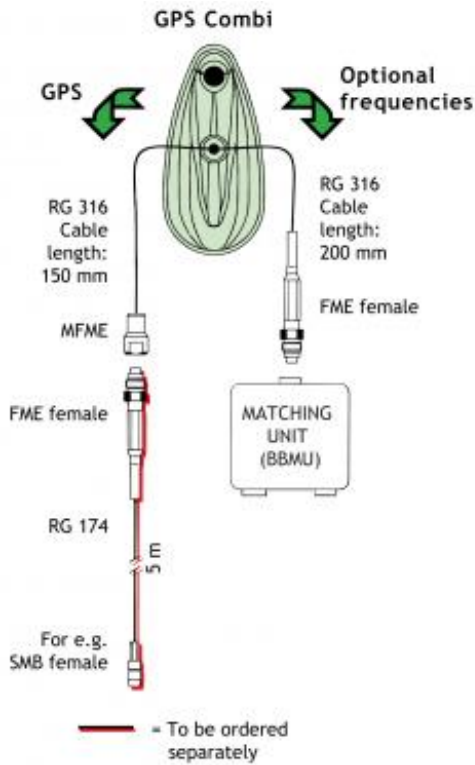


MOUNTING INSTRUCTIONS



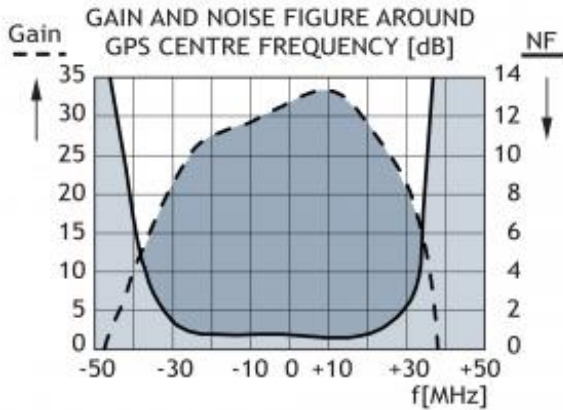
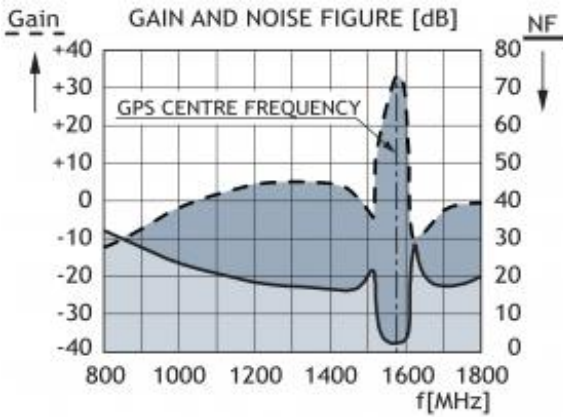
★ The whip should always be dismantled during car wash.

CABLE MOUNTING



PLEASE NOTE
The cable between the GPS-C Mount and BBMU box must not be extended.

TYPICAL RESPONSE CURVES



VERTICAL RADIATION PATTERN

