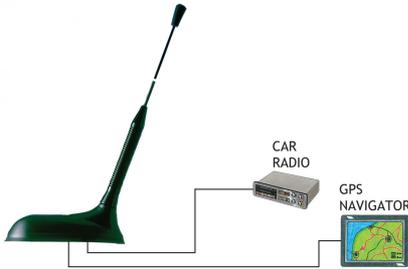


# GPS-C R/FM

## GPS Antenna with a $\frac{1}{4} \lambda$ Whip with Shock Spring for the FM Band

### DESCRIPTION

- External antenna whip mounted on the GPS-Combi mount.
  - Black-chromed, conical stainless steel whip.
  - Sturdy, general-purpose  $\frac{1}{4} \lambda$  antenna in professional quality.
  - 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 respectively 12 V available on request).
  - DC supply via RF-connector.



### ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
GPS-C R/FM	132000057

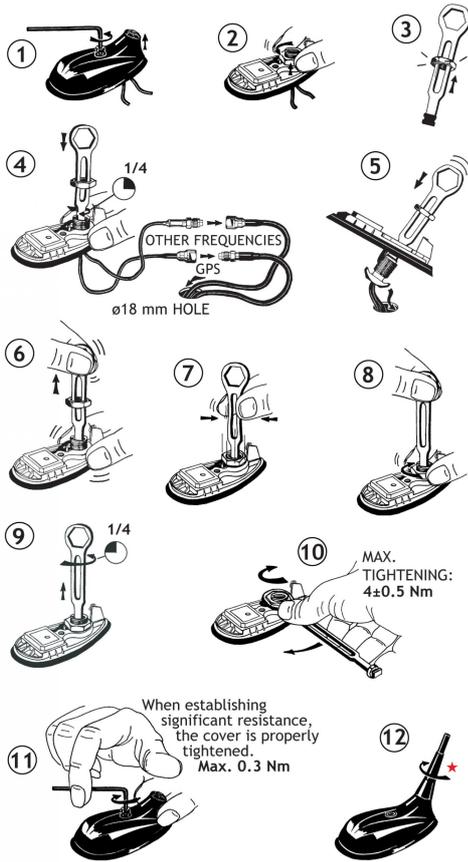
### SPECIFICATIONS FOR WHIP

ELECTRICAL	
MODEL	GPS-C R/FM/...
ANTENNA TYPE	$\frac{1}{4} \lambda$ mobile antenna
FREQUENCY	FM band (88 - 108 MHz)
IMPEDANCE	Nom. 50 $\Omega$
POLARIZATION	Vertical
MECHANICAL	
MATERIALS	Whip: Black-chromed, conical stainless steel Spring: Black-chromed brass Black-chromed stainless steel
COLOUR	Black
HEIGHT	Approx. 500 mm
WEIGHT	Approx. 50 g
MOUNTING	On the GPS-Combi mount

### SPECIFICATIONS FOR GPS-COMBI MOUNT

ELECTRICAL GENERAL SPECIFICATIONS	
MODEL	GPS-COMBI MOUNT
ANTENNA TYPE	Active patch antenna
FREQUENCY	1575 MHz
IMPEDANCE	Nom. 50 $\Omega$
POLARIZATION	Circular right-hand
COVERAGE	Hemispherical
GAIN	28 dBic in axial direction (typ.)
CROSS-POLARIZATION ATT.	> 10 dB (typ.)
SELECTIVITY	> 45 dB down @ $\pm 45$ MHz
BUILT-IN AMPLIFIER	
GAIN	> 30 dB (typ.)
NOISE FIGURE	< 1 dB (typ.)
P <sub>1dB</sub>	Approx. +7 dBm
SWR (output)	$\leq 2.0$
SUPPLY VOLTAGE	5 $\pm$ 0.5 VDC (3 V resp. 12 V on request)
CURRENT CONSUMPTION	Approx. 25 mA
MECHANICAL (ONLY FOR THE GPS-PART)	
MATERIALS	Cu-nite brass Stainless steel Reinforced thermoplastic
ANTENNA COLOUR	Black
TEMP. RANGE	-35° C $\rightarrow$ +75° C
CONNECTOR	FME (male for GPS) + FME (female for mobile antenna)
RECOMMENDED INSTALL. TORQUE	4 $\pm$ 0.5 Nm
DIMENSIONS (H x L)	Approx. 30 x 89 mm
ROOF THICKNESS	Max. 2.5 mm
WEIGHT	Approx. 114 g
MOUNTING	$\varnothing$ 18 mm dia. hole for roof thickness up till 2.0 mm $\varnothing$ 18.5 mm dia. hole for roof thickness 2.0 - 2.5 mm Tools for mounting included

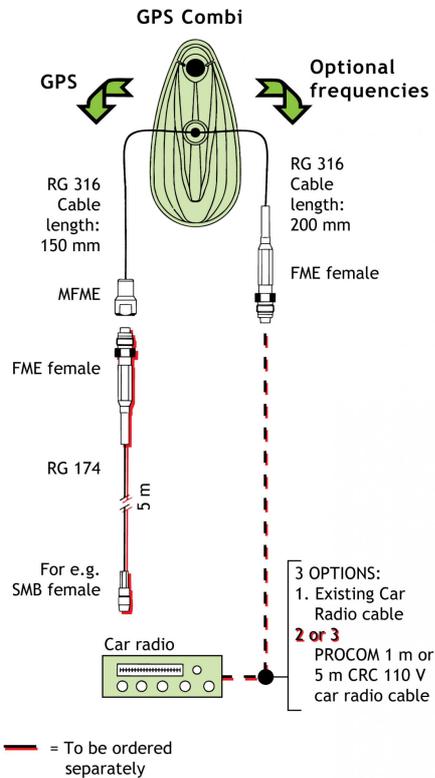
MOUNTING INSTRUCTIONS



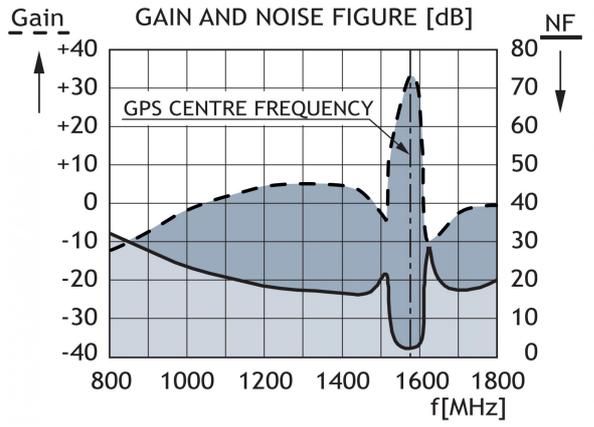
★ The whip should always be dismantled during car wash.

Do not use sealer on rubber gasket or other places.

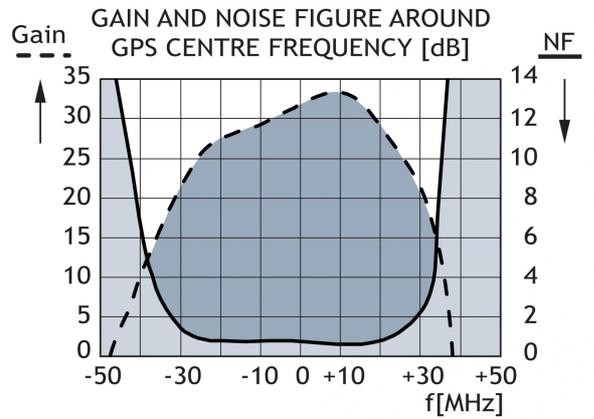
CABLE MOUNTING



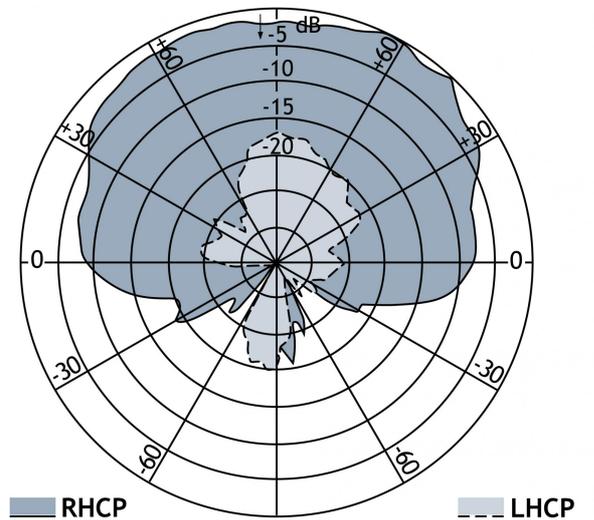
TYPICAL RESPONSE CURVES



TYPICAL RESPONSE CURVES



TYPICAL RADIATION PATTERN



PROCOM France S.A.R.L. se réserve le droit d'améliorer les spécifications sans préavis. 19/12/13