

GPS-C R/GSM/FM

GPS Antenna with a $\frac{1}{4} \lambda$ Whip with Shock Spring for the EGSM and FM Radio Bands

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/GSM/FM	132000056

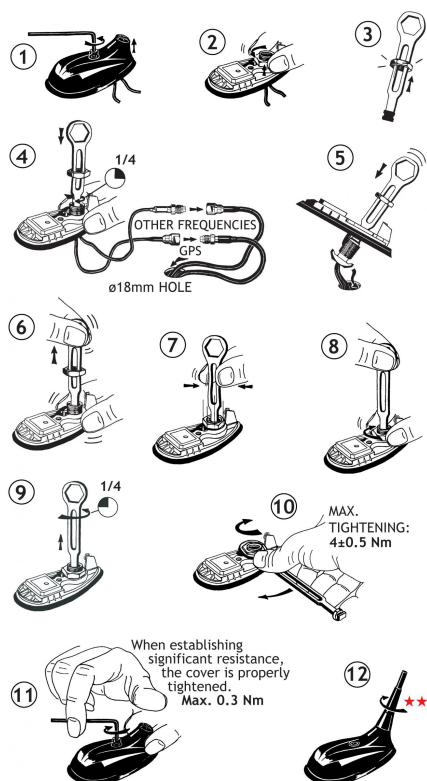
SPECIFICATIONS FOR WHIP

ELECTRICAL	
MODEL	GPS-C R/GSM/FM
ANTENNA TYPE	$\frac{1}{4} \lambda$ mobile antenna
FREQUENCY	FM-Radio (88-108 MHz) EGSM band (880-960 MHz)
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Vertical
MAX. POWER	25 W
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 Ω
POLARIZATION	Circular right-hand
COVERAGE	Hemispherical
GAIN	28 dBic in axial direction (typ.)
CROSS-POLARISATION ATT.	> 10 dB (typ.)
SELECTIVITY	> 45 dB down @ ± 45 MHz
BUILT-IN AMPLIFIER	
GAIN	> 30 dB (typ.)
NOISE FIGURE	< 1 dB (typ.)
P _{1dB}	Approx. +7 dBm
SWR (output)	≤ 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

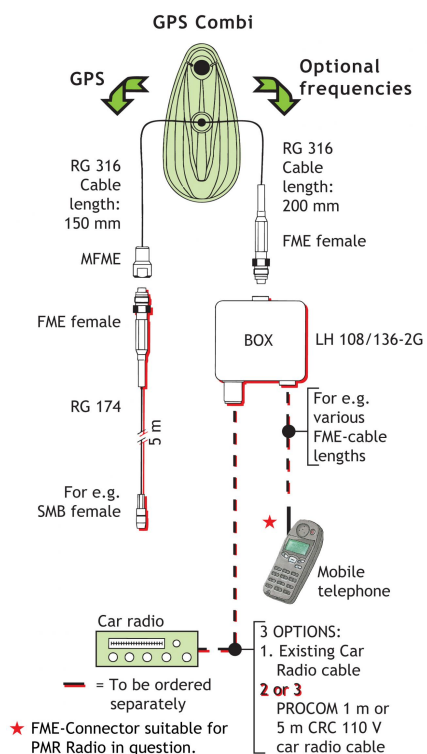
MOUNTING INSTRUCTIONS



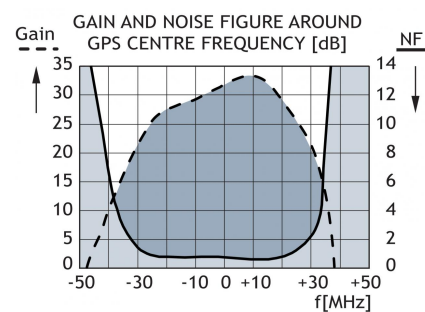
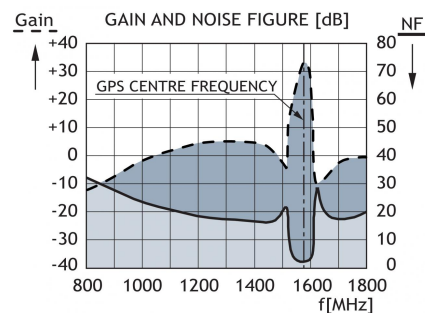
★★ The whip should always be dismantled during car wash.

Do not use sealer on rubber gasket or other places.

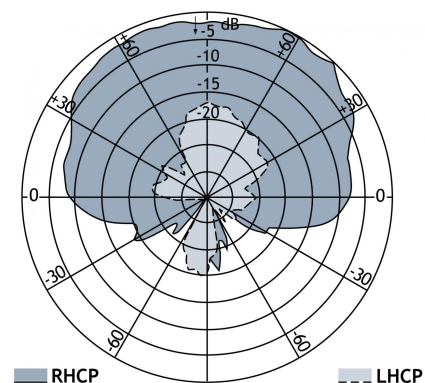
CABLE MOUNTING



TYPICAL RESPONSE CURVES



VERTICAL RADIATION PATTERN



CE



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