

MH 1-XR, MH 1-XGR, MH 1-CXR, MH 1-MMR

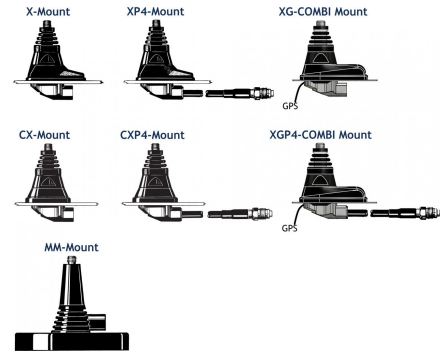
¼ λ Mobile Antenna for the 160 MHz Band

DESCRIPTION

- Black-chromed, conical stainless steel whip.
- Elegant transition between whip and mounting surface due to slim-line mount.
- 30° tiltable whip. Stainless steel X-mount with M6-thread whip-fastening system.
- Simple mounting exclusively with access from the outside.
- Models available with X-mount (oblong), XG-mount (oblong with GPS), CX-mount (circular) and MM-mount (magnetic).
- Choose between four connection possibilities:
 - X-mount, CX-mount, MM-mount: FME-connection (supplied without cable).
 - XP4-mount, CXP4-mount: Permanently attached 4 m cable terminated with FME-connector.
 - XG-Combi mount: FME-connection and GPS (supplied without cable).
 - XGP4-Combi mount: Permanently attached 4 m cable terminated with FME-connector for whip and 0.15 m RG 178 with MFME for GPS.
- 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).**
 - 2.85 V - 5 V supply voltage (typical 3 V).



All whips are compatible with all mounts.



ORDERING DESIGNATIONS

TYPE	MOUNT VERSION	PRODUCT NO.
MH 1-XR	X-mount (oblong) with FME-system	130000708
MH 1-XP4R	XP4-mount with 4 m cable and FME-connector (oblong)	130000710
MH 1-XGR	XG-Combi mount (oblong) with FME-system and GPS	130002059
MH 1-XGP4R	XGP4-Combi mount with 4 m cable and FME-connector (oblong) and GPS	130002063
MH 1-CXR	CX-mount with FME-system (circular)	130000709
MH 1-CXP4R	CXP4-mount with 4 m cable and FME-connector (circular)	130000711
MH 1-MMR	MM-mount with FME-system (magnetic)	130000707

SPECIFICATIONS

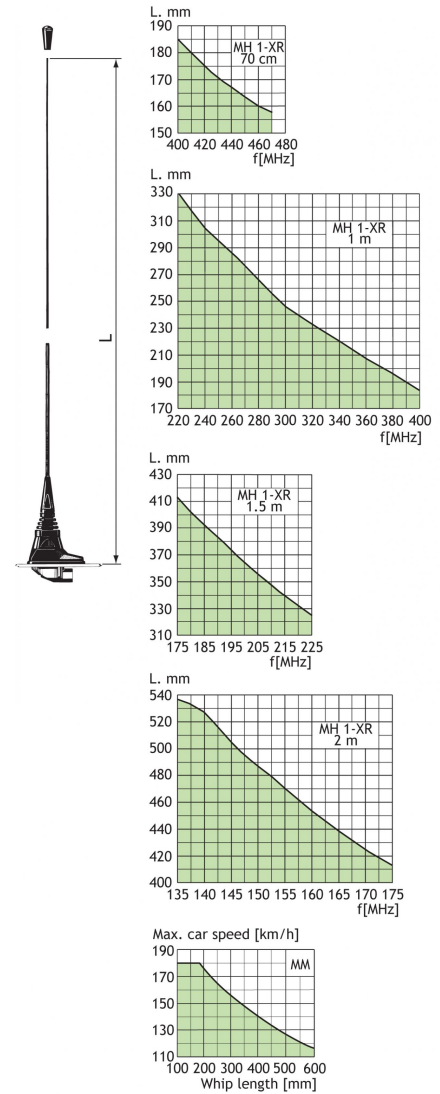
ELECTRICAL	
MODEL	MH 1-XR, MH 1-XGR, MH 1-CXR, MH 1-MMR
ANTENNA TYPE	¼ λ mobile whip antenna
FREQUENCY	Tunable by cutting within: 144...175 MHz (Also applicable: 175...225 MHz)
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Vertical
GAIN	0 dB (acc. to EIA RS-329-1)
BANDWIDTH	≥ 15 MHz @ SWR ≤ 2.0
SWR	≤ 1.3 @ f. res.
MAX. POWER	150 W
MECHANICAL	
MATERIALS	Whip: Black-chromed Conical stainless steel Black-chromed brass Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel
RECOMMENDED INSTALLATION TORQUE	4 ± 1 Nm
COLOUR	Black
HEIGHT	Approx. 55 cm
WEIGHT	X-version: Approx. 70 g XP4-version: Approx. 210 g CX-version: Approx. 70 g CXP4-version: Approx. 210 g XG-version: Approx. 90 g XGP4-version: Approx. 230 g MM-version: Approx. 310 g

INSTALLATION AND ASSEMBLY INSTRUCTIONS

Please refer to the data sheet of each individual mount to find the installation and assembly instructions.

TUNING

The antenna should always be tuned using an SWR-meter. The cutting diagrams below serve as a guide for this procedure.



PLEASE NOTE

For safety reasons: Do not operate the MiniMag with antenna whips longer than 60 cm. Please respect the maximum car speed limit corresponding to a particular whip length as appears from the above curve.



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