

Antenna Mast MA 5000-XP-ET

Technical Data

Antenna height (horizontal)		1.0 ... 4.4 m tilted 1.0 ... 5 m not tilted
Total mast height	max.	5.6 m
Antenna weight	max.	10 kg
Material		PVC + RFP, weatherproof
Mast cross-section		100 mm x 100 mm
Base L x W		1080 mm x 1080 mm
Positioning speed adjustable between		1 to 12 cm/sec. (15 or 20 cm/sec. available)
Positioning accuracy	better ±	3 mm
Pneumatic polarisation		0° / 90° (vert./hor.)
Positioning time 0°/90°		approx. 4 sec
Polarisation accuracy	better ±	± 0.1°
Air pressure needed		none (internal DC compressor)
Tilt angle		0°...45°
Tilt speed		7.5 °/sec.
Tilt accuracy	better ±	0.5°
Antenna support drive		2 Kevlar toothed belts (metal free)
Motor		2 electronic EC Motors (max. 150 W), separate controlled for simultaneous movements
Control		microcontroller board
Control modes supported in CO3000 controller		> independent height / tilt changing > real height related tilt changing (configurable) > optional longitudinal compensation
Control line		fiber optic, POF (standard)
Drive unit		shielded and radio interference suppressed 20dB under Class B of CISPR 22
Motor		2 electronic EC Motors (max. 150 W), separate controlled for simultaneous movements
Power supply		230 V AC 50/60 Hz (110 V as option)
Current consumption		2.2 A
Accessories		Interface to CO 3000 / 2000 5 m power supply cable with CEE7/4 Schuko plug 4x5m, 2x10 m fibre optic cable Service manual

- Available options: increased speed (15 cm/sec, 20 cm/sec), increased payload, OATS execution, pneumatic polarisation, other heights, antenna cable relief, longer polarisation rod (acc. CISPR 16), different voltage, ...

Brief description

The MA 5000-XP-ET Antenna Mast is compliant with CISPR 16-1-4 BORESIGHT requirements. Metal parts are located only in the base plate and the drive mechanism (max. 0.4 m above ground level). Limit switches and the general mechanical design provide a safe system operation.

The GPIB (IEEE 488) bus, when operated with the CO3000 Controller, provides an additional control option for all functions. The separate controlled motors support simultaneous movement with both independent changing of height and tilt and also an automatic but configurable link of both values. (tilt while height change).

