

Antenna Mast AM 4.0-O

Technical Data

Antenna height automatic adjustable from	1.0 to 4.0 m (electrical)
Total mast height	4.6 m
Load capability	max. 10 kg
Depending on the distance of the antenna centre of gravity	
Material	Plastic + reinforced fibreglass, weatherproof
Mast cross-section	0.1 m x 0.1 m
Base L x W	1.0 m x 1.0 m
Positioning speed adjustable between	2 to 15 cm/sec.
Positioning accuracy	+/- 1 cm
Electrical Polarisation	0°/90° (vert./hor.)
Positioning time 0°/90°	approx. 3 sec.
Antenna support drive	2 toothed belts
Material of toothed belts	Kevlar reinforced (non-metallic)
Motor	Brushless DC motor 150 W
Drive unit	shielded and radio interference suppressed under EN 55022 class B
Control cable	Fibre optic lines
Remote control via	IEEE interface
Current consumption	max. 2A
Voltage	208-230 VAC, 50/60 Hz, single phase
Temperature range	-10 °C...+35 °C
Total weight	90 kg
Accessories	Interface to MCU Controller 1.5 m power supply cable Service manual

Brief description

The Antenna Mast **AM 4.0-O** is designed for use in open area test sites. Included guy wires, anchoring pins and protection cover ensure an operation for wind speeds up to 60 km/h. The antenna mast, with the exception of the drive unit, is fabricated from plastic (PVC and reinforced fibreglass). Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).

Antenna Adapters for all commercially available antennas are available upon request. All antennas during polarisation rotate around their axis to eliminate any elevation errors.

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **MCU Controller**.

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