



Description

The RC1 rotor is a rotator designed for large antennas and is complete with a digital control unit.

The rotor is designed to be mounted on a pole or on a flat support inside or outside a tower.

The controller has two independent digital outputs for Az. And El.

The mechanics has been built to obtain the best results both for the torque and for the vertical load using special thrust bearings and a worm helical gear reducer.

The reading of the positions is made by digital encoder that allows a resolution of 0.1 degree.

The digital control unit is complete with software and can be interfaced with the PC via RS232 and is compatible with almost all software (Orbitron, VK5DJ, VK3UM etc.)

The system has an internal power supply of 200 - 240 Vac with a 13.8 Vdc output. and 24 Vcc

Rotor

- Low voltage - 24VDC (or 12VDC) high torsion force motor.
- 24/12 volt version with torsion 900/500 Nm
- 24 /12Volt version 360-degree rotation, rotation period: 60/120 sec.
- Quiet and powerful self-braking action with helical worm wheel
- Use 7-conductor cables
- Sealed switching sensor technology for maximum reliability and environmental resistance
- Resolution of 0.3 degrees with minimum play
- • Possible low voltage operation with 12 volt power supply (typically 3 ÷ 6 A), ideal for portable DXpeditions, and VHF / UHF
- Dimensioned for large loads when mounted on a steel tower
- Designed for mounting on 50 ÷ 70 mm mast (2 "1/2)
- Adaptation sets for other support platforms are also available
- Powder painting for protection against corrosion and aggressive agents

Digital Control Unit

- Manual, automatic and programmable
- Digital reading with 0.3 degree of resolution
- Large display easy to read green LEDs
- RS232 computer interface
- Can be reset to zero in any position to correct installation errors or antenna slips

RC1 - System Rotator Technical Data Sheet

Product code	RC1
Turning torque mt-Kg / Nm	500 / 4903
Vertical Load	450 Kg
Rotation Speed for 360 Deg	120 sec
Resolution	0,3 deg
Rotation rangeAz/El	360 / 180
Weight	22 Kg
Case	Aluminium
Surface treatment	powder coating
Galvanic treatment	Electrolytic galvanizing
Dimensions cm	38.5 x 38.5 x 44
Weight	22
Supplied incl. inox screws	M8 x 60

