

JDA Systems



VT-005 Series Antenna Positioner

The VT-005 from JDA Systems is an Ethernet based antenna positioner. It can rotate endlessly in the Azimuth axis and support a balanced antenna load of over five KG.

The VT-005 is designed to stand upright on the four supplied support feet and by rotating to point an antenna that is fitted to the antenna mast section in a controlled direction.

The antenna is customer supplied and when fitted in a balanced configuration (similar weight forward and behind the antenna mast) it can support antenna systems of up to five KG in weight and with an output power of up to 1KW. The antennas cabling must be connected directly to the antenna and allowed to hang from the antenna in such a way as to not restrict



the antenna masts movement. If more than 360 degrees of movement is required then the antenna cable should be loosely wound around the antenna mast a couple of times when installing the antenna to allow the cable to tighten and loosen when the antenna mast rotates.

The antenna positioner case contains all the electronics and mechanics required to drive the antenna positioner. A single door on the front of the case give easy and full access to the unit's interior is required.

On the bottom of the case you will find a single power input and a single Ethernet socket, these are use to power and control the antenna. The antenna powers up as soon as mains power between 96VAC and 264VAC is applied. The antenna power may be removed whenever the antenna is no longer rotating without damage to the unit.

The Ethernet interface switches automatically between 10 and 100 MBits/Sec to match the Ethernet system to which it is attached. It is possible to connect the VT-005 to a GigaNet network using a suitable Ethernet switch, although in the case the antenna positioner will operate at 100MBit/Sec and must rely on the switch to interface it correctly to the rest of the GigaNet network.

A level indicator is provided on the top of the VT-005 case and the unit should be levelled to within 3 degrees to level before operation.

Parameter	Antenna Positioner
	Model VT-005
Type	Azimuth rotator with unlimited movement
Environmental	
Temperature	
Non-Operating	-30° C to +70° C
Operating	-30° C to +65° C Plus Solar
Relative Humidity	Up to 100% Including Condensation
Rain	Up to 5-inches Per Hour With Optional Radome
Ice	One-half Inch, Radial
WIND, Operating	120 KPH
WIND, Survival	140 KPH
Weight Approx	12 kg
Power Requirement	100 W
Voltage/Frequency	96 to 264 VAC, 50/60 Hz, 1 ϕ
Interface	Ethernet 10/100 MBit/Sec

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