

# COMROD AT100Tel

## 10m HF Telescopic Whip

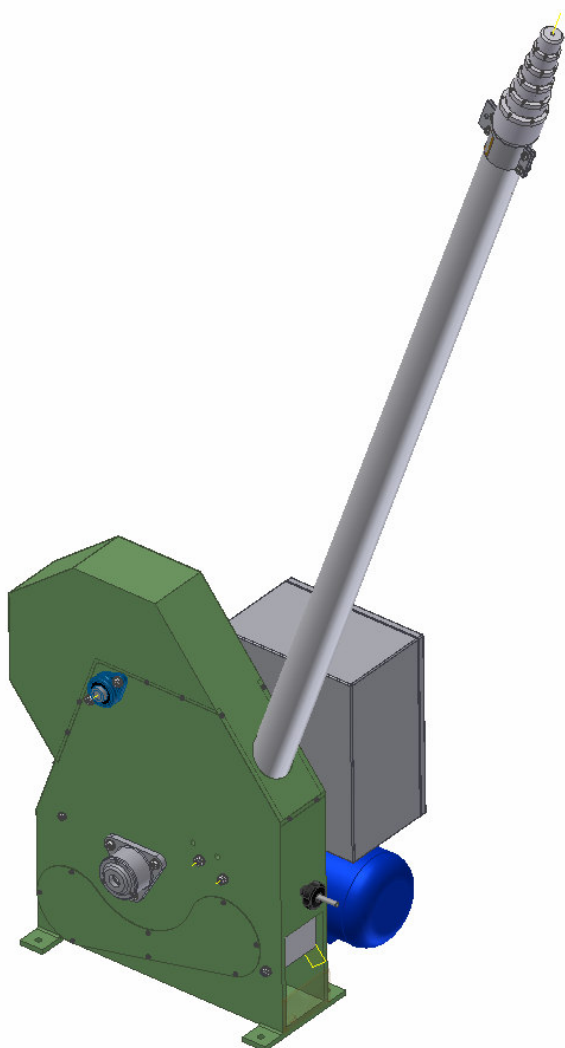
### Application:

The AT100Tel is a fast acting telescopic HF whip antenna system. It is primary designed to reduce the radar visibility of a ship as the antenna is only hoisted when needed. When not in use it is completely integrated into the superstructure of the ship.

Other applications will be to reduce hazards to helicopters near a helipad, or on pleasure yachts to give a better visual impression. The antenna has a switch that enables it to be used as a Lightning Protection System.

### Features

- The system is controlled with a PLC connected to a TFT touch panel or with a Windows PC application.
- Electrically it behaves like any other 10m HF whip antenna.
- Manual, automatic and Semi automatic operation is possible. A remote safety switch can block the motor power.
- A normal system consists of 4 antennas with a common PLC, control panel and PC application.
- In case of power loss, the antenna can be lowered and hoisted by hand.
- Normally installed with 10° inclination to reduce radar signature



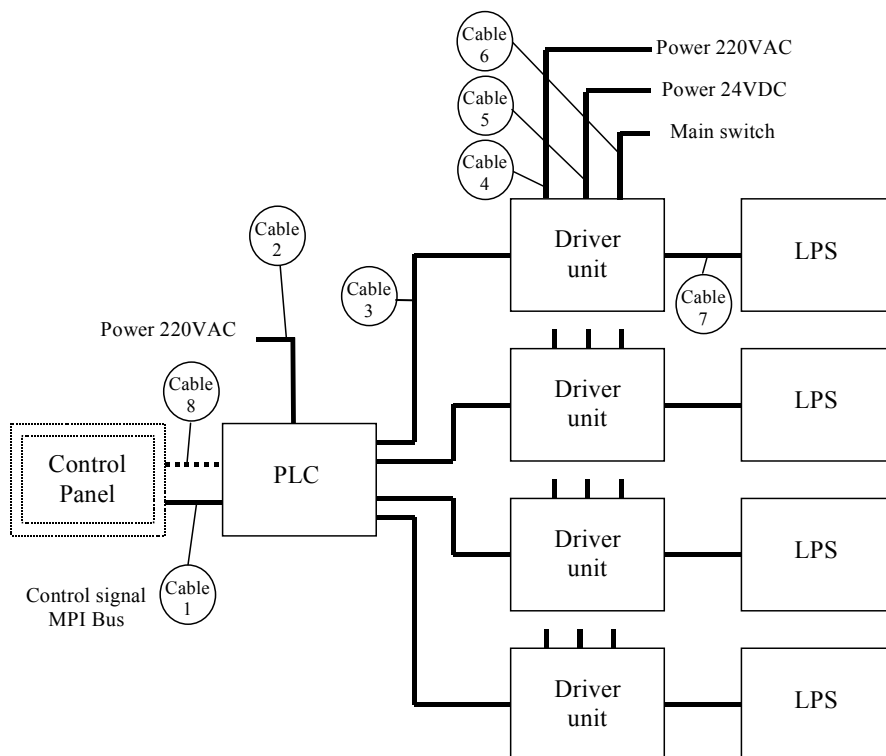
### Electrical specifications

Frequency range	1.6 to 30MHz
Power rating	1KW CW
Electrical length	10m
Maximum power consumption	1.5kW @ 220V AC
Interface to control panels & computer	MPI bus, RS485

### Mechanical specifications

Speed, up and down	Selectable 4, 8, 12sec There is no delay between repeated operations
Height	2.4m required inside 10m outside when hoisted
Weight	100kg + PLC cabinet & control panel
Wind rating	45m/s survival - hoisted
Deflection due to wind load	6m

## Electrical layout with 4 antennas



PLC: Programmable Logic Controller

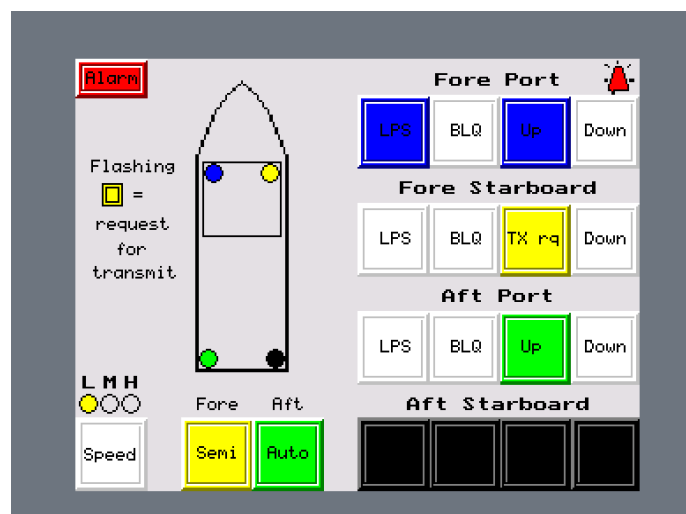
Driver Unit: Antenna up/down motor

LPS: Lightning protection system

A PC can also be connected to the MPI bus

## TFT touch control panel layout

Actual solution will be tailored to the intended application.



## Lightening protection system

