

Antenna Control System - OTP Series SRV-OTP-4000-A

The TEMIX Antenna Control System Model SRV-OTP-4000-A is designed to assist both technical and non-technical operators of mobile antenna systems by automating the process of locating and locking on to a selected satellite. The antenna controller is designed for mobile systems like Flyaways, Portable Terminals and Vehicle Mounted On The Pause, and performs fully automatic Tracking also for Inclined Orbit Satellites. It combines affordability with the reliability and precision expected of professional-grade communications equipment. TEMIX Antenna Control System is suitable for any type of antenna system due to the high flexibility and large modes of configuration. Antenna Control System includes:

- Antenna Control Unit (ACU)
- Interface Drive Unit (INU)
- Beacon Tracking Receiver (BTR)



Features provided include:

- Automatic Azimuth, Elevation and Polarization pointing solution calculation
- GPS Receiver for determination of antenna latitude and longitude
- Digital Compass for determination of antenna centerline heading
- Digital Inclinator for determination of antenna Roll & Pitch
- DVB-S/S2 Integral Receiver for determination/lock of the acquired satellite
- Automatic tracking of inclined orbit satellites
- Automatic polarization control of rotating feeds
- Automatic repositioning to stored satellites
- RS-232 or SNMP remote control interface
- Optional: Differential GPS Positioning (for 0.75 degree heading accuracy)

Applications

- **Flyaway Antennas**
60cm up to 240cm
L, S, C, X, Ku, DBS, Ka, Q/V
- **Manpack Terminals**
Fully Integrated Board
- **Vehicle Mounted OTP**
75cm up to 240cm
C, X, Ku, DBS, Ka
- **Portable Terminals**
75cm, 100cm & 130cm
C, X, Ku, DBS, Ka

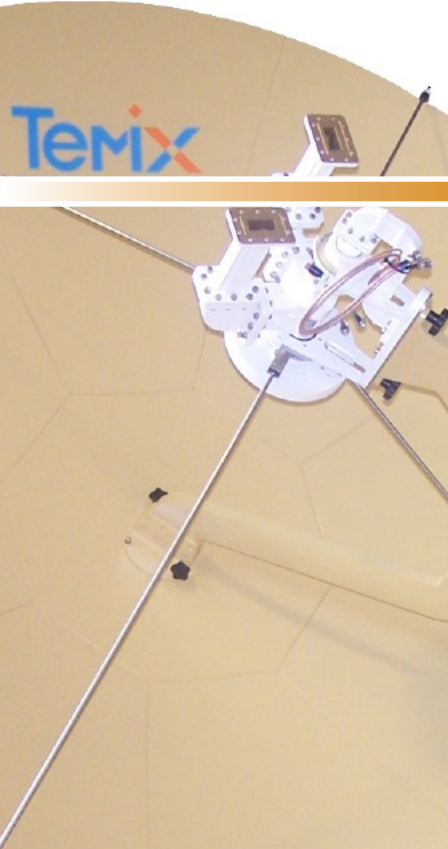
*The Information included in this data sheet may be changed without advise. rev_02/18

Operative Modes	Standby Manual Preset: <ul style="list-style-type: none"> • Go-To Satellite • Go-To Angle Automatic Stow/Deploy Fully Automatic Autopointing (push one button) Search Mode Tracking <ul style="list-style-type: none"> • Steptrack • Inclined Orbit Satellite Tracking
Angle Transducers	Absolute Encoders
Display Angle Resolution	0.01°

TEMIX Communication Engineering

Corso Michelangelo Buonarroti, 61/b
95039 Trecastagni (Catania) - ITALY
Tel. + 39 095 8996903
Tel. + 39 095 8880189
info@temix.it
www.temix.it

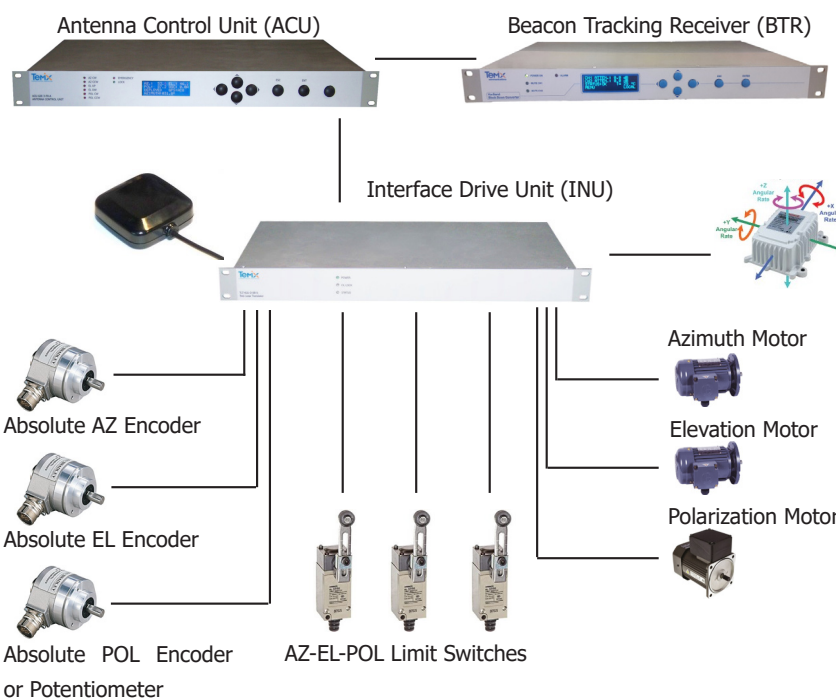
Temix
communications



Antenna Control System - OTP Series SRV-OTP-4000-A

Antenna Control Unit is connected to the Interface Drive Unit from which all the interconnections to Motors, Angle Transducers and Limit Switches are wired.

From the Antenna Control Unit the antenna is automatically Deployed and Stowed with completed the service. Once Deployed, the system acquires the North and calibrates the reference angles while adjusting Roll&Pitch reference; the operator select the required Satellite from the List (the system automatically acquires the first satellite in the list) and automatically the antenna acquire the satellite. Locked the satellite, the system performs a picking procedures to maximize the pointing.



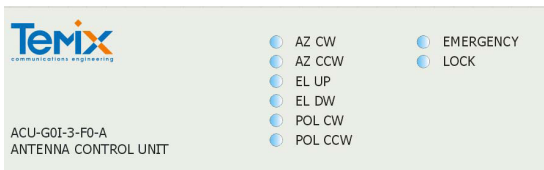
ACU LED indicators:

- Azimuth CW and CCW Limits
- Elevation UP and DOWN Limits
- Polarization CW and CCW Limits
- Lock
- Main Power

ACU Front Panel display:

- Azimuth, Elevation & Polarization heading
- Antenna Status
- GPS Status
- Operation

Input Power	Antenna Control Unit: 90-240Vac, 50/60Hz
Remote Control	SNMP, RS-232/422/485



ACU Front Panel Status & Alarm Indication

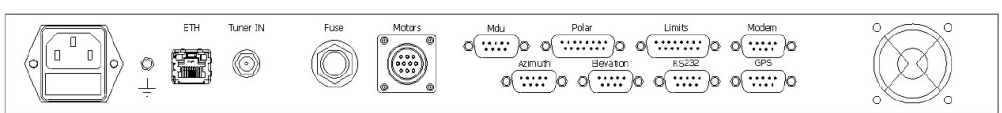


Figure 2: ACU Rear Panel

*The Information included in this data sheet may be changed without advise. rev_02/18

TEMIX Communication Engineering

Corso Michelangelo Buonarroti, 61/b
95039 Trecastagni (Catania) - ITALY
Tel. + 39 095 8996903
Tel. + 39 095 8880189
info@temix.it
www.temix.it

