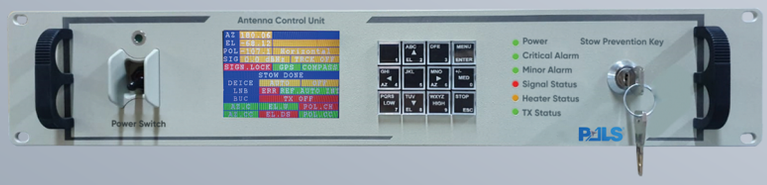
PALS® | Communications & Technology

PAC-700



STANDARD MIL-STD 810

STANDARD MIL-STD 461

STANDARD MIL-STD 1472

PAC-700

The e PALS PAC-700 is an advanced Antenna Control Unit (ACU) engineered for demanding earth station applications for full motion or limited motion ground antennas. It delivers precise user-friendly control over azimuth, elevation, and polarization for antennas typically 3.7 meters and larger, providing a robust solution for challenging tracking requirements, complex geometries, and dynamic operational environments. This makes it the ideal core system for deploying and operating fixed ground station antenna systems.

As a state-of-the-art automatic positioning and tracking system, the PAC-700 combines sophisticated control functions with an enhanced menu-driven interface, ensuring accurate antenna pointing with minimal operator intervention. It supports comprehensive control modes, and advanced automatic tracking such as Step Track, Memory Track. The system also features integrated antenna measuring utilities for calibration and diagnostics.

The PAC-700 ACU consists of two primary units: the Indoor Unit (IDU, IDU-E, SCU) for user interface and signal processing, and the Outdoor Unit (MDU, ECU) for motor control, safety systems, and environmental management. Designed for long-term value and compatibility, the PAC-700 features a modern Ethernet interface and is software-upgradable to protect your investment. It is engineered to work with a wide range of antenna types and motorization kits, establishing it as a versatile and future-proof control solution for critical satellite communication infrastructure.

Key Features

- Universally compatible with most antenna and servo motor systems
- Integrated DVB-S/S2 Receiver & Beacon Receiver (supports various types)
- Integrated AGC Receiver for Modem Integration
- User Configurable Target Pointing
- Manual and multiple antenna control modes
- Multiple tracking modes: Step, Memory and Programming Tracking
- An intuitive user interface with LCD display and keypad
- Event and Alarm Logging
- Build in Self Test
- Fiber, Ethernet and serial interfaces
- Variable speed motor control for driving the AZ and EL axis
- Entirely zero-backlash motion control system (optional)

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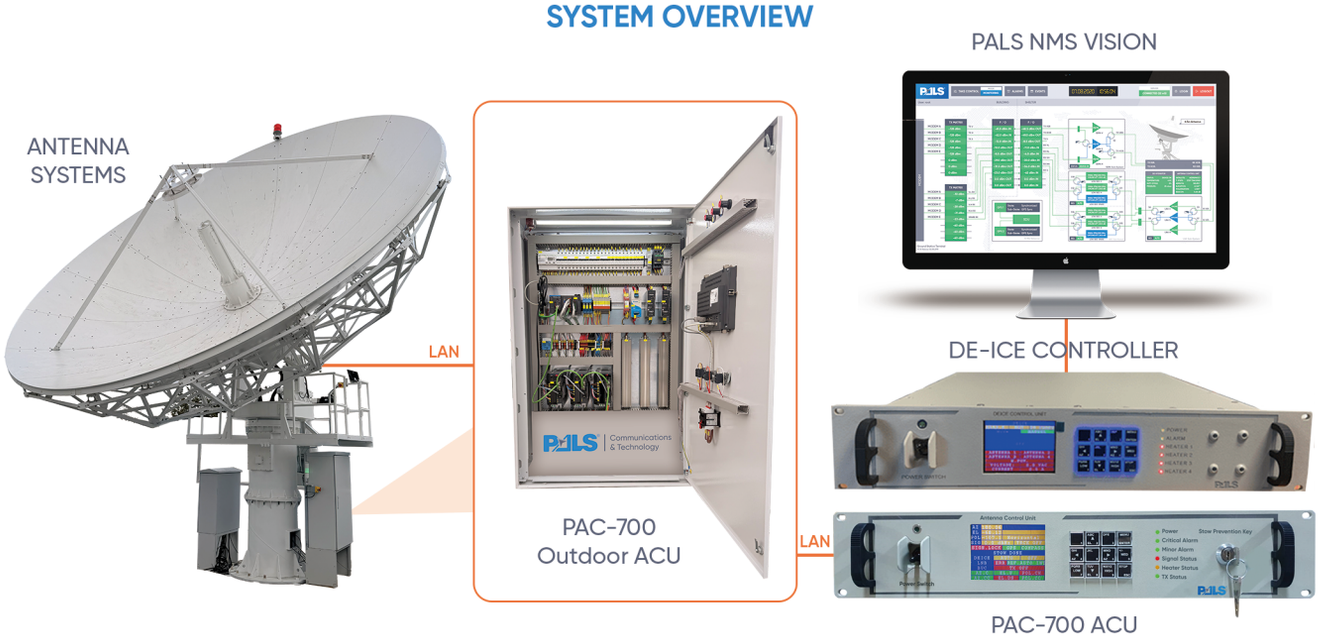
PAC-700

GENERAL SPECIFICATIONS	
RF Receiver	Beacon, DVB S/S2 (optional), AGC (optional)
10 MHz Signal Generator	Internal generator biased with LNB Input Port. Internal Generator Output Port for other uses. External Signal Input Port (Automatically Switches to External). Internal/External Choise is User Configurable.

MONITOR AND CONTROL SPECIFICATIONS	
HMI	Fully Graphical Front Panel Screen, Alphanumerical Keypad (Indoor Unit)
Remote	RS232 for M&C, 10/100 Base-T Ethernet RJ-45 port for web-based GUI and SNMPv2, function key with status LED to toggle local/remote operation Remote control with PALS Vision (NMS) and web interface
Monitor Ports	Input Signal Monitoring Port

PHYSICAL FEATURES & ELECTRICAL SPECIFICATIONS	
Operational Temperature	-10°C to + 40°C -30°C to + 50°C (Optional Low-Temp Kit) -30°C to + 60°C (Optional High-Temp Kit)
Storage Temperature	-40°C to + 70°C
Humidity	100% (Condensing)
Power Rating	Outdoor Unit: 380 VAC, 50 Hz (3 PH) Indoor Unit: 100-220 VAC, 50 Hz
Misc	Internal Power Factor Corrector and Line Filter

SYSTEM OVERVIEW



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