PAC-700

The PALS PAC-700 Control System is an advanced antenna control system designed for applications with challenging specifications for tracking, complex geometries and dynamic environments. For most antennas with sizes of 2.4 meters and up, the PAC-700 Antenna Control System provides accurate, user-friendly control over the basic motorization kits.

The PAC-700 Antenna Controller is a state-of-the-art automatic positioning system that combines advanced control functions with an enhanced menu-driven interface, delivering precise antenna positioning with minimal operator intervention.

Our control systems are compatible with all antenna types, supporting a wide range of applications. Featuring a modern, user-friendly Ethernet interface, the systems are also software-upgradable to safeguard your long-term investment.

Key Features

➤ Adaptable to almost all antennas

➤ Integrated DVB-S/S2 Receiver

➤ Integrated Beacon Receiver (Optional)*

➤ Integrated AGC Receiver for Modem Integration

➤ Emergency Stop Button

➤ Fully Automated Satellite Signal Acquision under 3 min.

➤ User Configurable Target Pointing

➤ Satellite Memory Tracking

➤ Fully Responsive Web Interface (SNMP Support)

➤ Event and Alarm Logging

➤ 3 Level User Access

➤ Configurable Visual and Audio Alarms

➤ Build in Self Test

➤ Tracking accuracy better than 5% of beamwidth

➤ Fiber, Ethernet and serial interfaces

➤ Variable speed motor control for driving the AZ and EL axis

➤ Alarm and fault logging

➤ Emergency stop features

➤ Pointing accuracy ≤ 0.05° RMS

➤ An intuitive user interface with LCD display and keypad

*: Beacon receiver can be integrated and used simulteniously with DVB S/S2 receiver in the same unit.

GENERAL SPECIFICATIONS

Proccesor	120 MHz ARM Multiprocessors
Topology	Indoor and Outdoor Units
RF Receiver	DVB S/S2, Beacon (optional), AGC
Peripherals	GPS and GLONASS Receiver, Inclinometer, True Compass, 3 Axes Motor Drive, 16-bit Absolute Resolver Drive
10 MHz Generator (Optional)	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 with EMC Shield, Alphanumerical Keypad
Remote	RJ-45 port for full responsive web interface (no software needed) and SNMP v2c support
Monitor Ports	Input Signal Monitoring Port

PHYSICAL FEATURES

Dimensions	Outdoor Unit	160 x 60 x 30 Cm
	Indoor Unit	42.4 x 55.1 x 8.8 Cm
Weight	Outdoor Unit	50 Kg
	Indoor Unit	14 Kg
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

ELECTRICAL SPECIFICATIONS

Power Rating	Outdoor Unit	220 VAC, 50 Hz (2PH), 380 VAC, 50 Hz (3 PH)
	Indoor Unit	220 VAC, 50 Hz
LNB Power		13/15/18 VDC and 22 KHz User Configurable Supply
Misc.		Internal Power Factor Corrector and Line Filter

Specifications are subject to change