ND SATCOM

Antenna Control Unit - ACU 5020 for SNG

With more than 300 SNG vehicles sold in the past few years, ND SATCOM has gained notable traction in the European market with a proven track record for well-engineered and reliable systems. The ACU 5020 is our solution for inexperienced RF operators, providing easy operation of the antenna equipment. The powerful and robust automatic pointing system (APS) aligns the antenna within less than 10 minutes to the selected satellite.

The field-tested proven ACU 5020 unit provides a user-friendly interface to control azimuth, elevation and polarization for deploying and operating the ND SATCOM mobile antenna system.

The operator can remotely supervise and control the ACU 5020 via the web or a connected ND SatCom Monitor & Control System.

The APS uses the ND SatCom SKYWAN satellite modem or an external IRD for DVB-S/S2 carrier detection. The APS automatically compensates large skews when parking the vehicle on slopes or rough terrain.

The ACU 5020 can optionally control a single ND SATCOM HPA (i.e. 400 W). This saves an additional HPA controller in the SNG vehicle.

Our ACU series consists of three devices:

- ACU 5010 - for SKYRAY Light 1200 Antenna Systems
- ACU 5020 - for SKYRAY Compact/MAS Antenna Systems
- ACU 5030 - for fixed ground stations

KEY FEATURES

- Automatic Pointing System (APS) with one-button operation based on SKYWAN or DVB-S/S2 carrier detection
- Remote control via web-based interface
- Manual control unit
- Emergency button to operate the antenna with 12VDC vehicle power
- NMEA 0183 protocol for GPS and compass
- Option: ND SatCom HPA control function

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Technical Specification

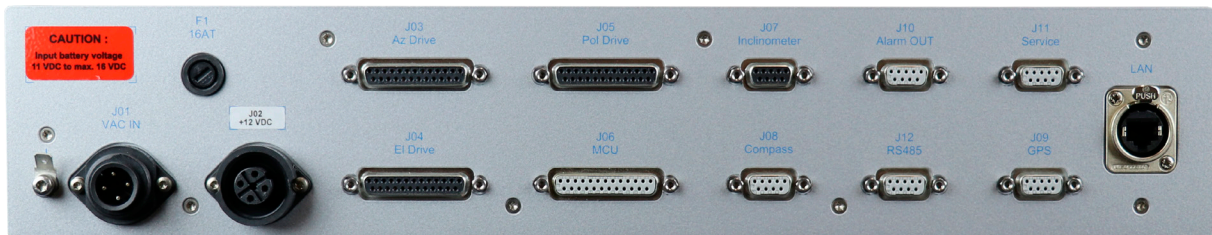| INTERFACES	
GPS Interface	RS232 with 12 VDC, NMEA 0183 protocol
Compass Interface	RS232 with 12 VDC, NMEA 0183 protocol
Inclinometer Interface	CAN bus with 24 VDC
MONITOR & CONTROL	
Local HMI	Color display & keypad with softkeys, function keys with integrated status LEDs, large emergency antenna STOP and RELEASE button
Remote Interface	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 ND SATCOM M&C software
Motor Interface	24 VDC servo drive
PHYSICAL / ENVIRONMENTAL	
Prime Power	Single-phase 115/230 VAC, 50 to 60 Hz
Operational Temperature	0 to +50°C (indoor)
Humidity	90% humidity without condensation
Power Consumption	Max. 250W (all motors are running)
Dimensions (W x H x L)	482.6 mm (19") x 88 mm (2RU) x 210 mm
Weight	9.5 kg
Data storage & logging	Event & change logging, optional redirect logs to external syslog server
Regulatory approvals	CE conformity marking

Rear view with interfaces

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