dB Systems Inc.

2501 S. Antenna Avenue
Hurricane, Utah 84737 USA

SPECIFICATION SHEET

TACAN ANTENNA CONTROL UNIT (ACU)
Model dBs 950E Series ACU

dBs Part Number 950230-102

- Interfaces and controls the dB Systems 950 Series Electronically Scanned TACAN Antennas
- Compatible with dB Systems 950E and 950ET TACAN Antennas
- Intuitive BIT (Built in Test) status functionality with real-time antenna health monitoring
- Available with an optional built in RMM (Remote Monitoring and Maintenance) computer that provides remote monitoring, control, and logging functionality
- Compatible with a variety of beacon transponders
- Passively cooled, silent, and very low power consumption

The dBs 950 Series Antenna Control Unit (ACU) is a field proven and reliable antenna interface device that works both the dBs 950E and dBs 950ET Electronically Scanned TACAN Antenna Systems.

This unit controls the primary functions of the antenna, monitors system health in real-time, provides DC power to the system, generates necessary timing clock signals, and interfaces with the beacon transponder.

The front display is designed with simplicity in mind, featuring large and easy to use switches and buttons, daylight visible status lights, and an uncluttered layout.

Equipped with a powerful microprocessor, enabling state-of-the-art, real-time monitoring of the overall system health with a comprehensive BIT (Built in Test) functionality. This status information is conveniently displayed on the front panel showing the user a pass/fail of each major CCA (Circuit Card Assembly), allowing for quick troubleshooting.

This unit features completely silent passive cooling that requires no maintenance. Each internal CCA is an LRU (Line Replaceable Unit), designed to be quickly and easily replaced with basic hand tools.

The dBs 950 Series ACU is designed to be rack mountable and available with or without sliding rails, allowing for a variety of mounting configurations.

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TACAN ANTENNA CONTROL UNIT (ACU)

MODEL dBs 950 SERIES ACU
dBs PART NUMBER 950230-102

SPECIFICATIONS/CHARACTERISTICS

TYPE: ACU, TACAN 950E Series

ANTENNA COMPATIBIITY: 950E, 950ET

FREQUENCY RANGE: 1X through 126X; 1Y through 126Y; 962 MHz - 1213 MHz

MODES OF OPERATION: TACAN or DME Only

AC POWER: 110 to 250 VAC, 1 Phase, 48 to 62 Hz

DC POWER: 40-72 VDC

POWER CONSUMPTION:
- ACU Only: <10W
- W/ Antenna: <125W

WEIGHT:
- Net: 15.5 lbs.
- Gross: 36.0 lbs.

SIZE:
- Net: 19.00” L x 16.00” W x 10.50” H
- Gross: 25.00” L x 34.50” W x 18.00” H

TEMPERATURE:
- Operating: -0° C to +50°C
- Non-operating/Storage/Transport: -40° C to +71°C

RELATIVE HUMIDITY: 5% to 95% non-condensing

ALTITUDE:
- Operating: Sea level to 13,100 feet
- Storage/Transport: Sea level to 45,900 feet

FRONT PANEL: BIT Status, Mode (DME/TACAN), Control (Local/Remote), Power (AC/DC), Status (Normal, Maintenance Alert, Shutdown), Reset Button, Lamp Test Button

REAR I/O: DC in, AC in, +48VDC to Antenna, Antenna Interface, Beacon Interface, RMM Monitor Interface, North Trigger 15Hz, AUX Trigger 135 Hz, Ident Trigger 1350 Hz, RJ-11 Modem (If Equipped), RJ-45 Network (If Equipped)

INTEGRATED RMM (Optional):
- Secure Web Based Interface
- Enhanced Antenna Status/Health Information
- Remote adjustment of TACAN Alignment
- Landline or LAN connection
- Data Logging

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