ANTENNA CONTROL SYSTEM

MODEL 8200™

The Next Generation in Antenna Control

**Performance** – Flexible tracking modes, intuitive menu layouts and a compact parameter set keep your limited motion antenna applications on point.

**Availability** – We understand the need for quick delivery. Lean manufacturing methods allow us to ship most systems within 30 days of an accepted order!

**World-Class Support** – You are never on your own with a Radeus Labs product. The experts at Radeus Labs are standing by if you need help.
This antenna control system meets the requirements of retrofits and new installations. As a retrofit option, the 8200 ACU is compatible with industry standard drive-cabinet interfaces and legacy position-feedback devices such as absolute rotary optical encoders, standard single-speed brushless size 11 resolvers, and two-speed brushless size 20 resolvers.

**Features**
- Touchscreen controls for all operations
- Efficient, intuitive graphical user interface
- Hardware jog buttons with LED indicators
- Data and parameters secured in nonvolatile storage
- Innovative setup wizard eases installation
- Secure TeamViewer integration for remote and shared ACU operation
- Field-proven in critical applications

**Modes of Operation**
- Move to Longitude — Position to AZ and EL angles determined from the longitudinal orbital slot.
- Move to Look Angles — Position to user-provided AZ, EL, and POL angles.
- Step Track — Periodic algorithm to perform an AZ-EL scan pattern to peak up signal strength.
- Predictive Track — Point the satellite dish using an orbital model created from previous peak AZ and EL step-track data points.

**Optional Modes**
- TLE (Two-Line Element) — Track automated positioning based on NORAD twoline element sets.
- INTELSAT Track — Automated tracking to AZ and EL coordinate sets derived from Intelsat 11 parameters.
- Computer Track — Automated positioning using commanded angles supplied from an external computer.
- Sun and Moon Track — Automated positioning to AZ and EL locations of the sun and the moon.
- Star Track — Automated positioning to AZ and EL locations of radio stars.
The Radeus Labs 8000 Series™ drive cabinet reduces IFL costs. It also requires fewer connections between the control center and the antenna.

**Features**

- Remote system control over ethernet via SNMP.
- The IFL requires an ethernet cable (for Drive Enable/E-Stop).
- Remote system control via a secure TeamViewer connection to the ACU.
- Dedicated jog button-indicators — like those on the ACU — show when motors are engaged, whether from drive cabinet or ACU.
- Options enable users to monitor and control brakes, interlocks, and feed status, as well as various position-feedback resolution and accuracy options.
This EnDAT encoder provides position feedback for azimuth, elevation, and polarization. At 25 bits of resolution, this allows a display resolution of 0.001°.

**Accuracy:** ±60” or ±0.016°

**Higher-accuracy option:** ±20” or ±0.005°

Contact Us

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RLRM8200-ACU — 20161213-01