



## Positioner Control Unit Type 203350A



TECOM's goal is to provide the best solution in meeting positioning systems and components by supplying Mil-Qualified Positioners, Controllers and Antennas for requirements in the field of ELINT, EW/ECM, Satellite, Telemetry, RADAR, Electro-Optics, and related areas. This is accomplished by:

1. Engineering Systems designing and modifications to our broad array of existing COTS products.
2. Teaming with our customers as a technical and manufacturing partner with over 250 man-years of experience as an OEM in Positioner and DC Servo motor control design.
3. Lloyd's Registry ISO-9001:2000 certification.

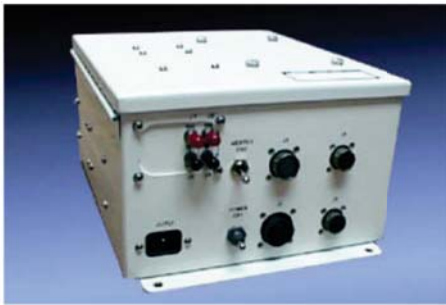
### GENERAL

The TECOM 203350A Positioner Control System provides cost-effective control of single- or dual-axis Positioners. It can be operated as a stand-alone controller or under host computer control. It features a programmable high resolution 3x3.5 inch dot matrix LCD display and a 20-button keypad for data entry. The 203350L LCU has a smaller screen. The display provides system related information in an alphanumeric form and multiple windowing menus for a variety of function selections with a minimum number of keyboard entry strokes. A front panel Contrast control is provided. The 203346A RCU is housed in an environmentally protected enclosure. The extensive I/O capabilities of the 203350A/L/346A allows the user to control and monitor a large number of peripheral devices such as relays, amplifiers, cameras, switches and more. An optional fiber optic interface between a PCU and an RCU provides a low-cost, secure link for Positioner control.

The ICU, PCU and RCU are constructed around a 16-bit microprocessor with static RAM and nonvolatile RAM for storage of user-selected power-on parameters and configuration data. The internal programs are written in a high level language to enable configuring the system to meet unique user requirements without hardware changes.

### STANDARD FEATURES

- Power On/Self Test
- Joystick Slew
- Position Commands
- Sector Scan, Raster Scan
- Azimuth Offset
- Programmable EL/AZ Limits
- Interlock (Safe-Run, Faults)
- Host Computer Interface via RS-232



203346A RCU



203350L PCU

### OPTIONAL ACCESSORIES AND CONFIGURATIONS

Not every option listed is available for every Product. Please consult the factory with your unique requirement. Custom configurations are also available. See the product series introductions for samples of the available options.

- Fiber Optic Remote Control Link
- Continuous/Variable Velocity Azimuth/Elevation Scan
- Generalized RF Select (RF Bands, Amplifier Select, Amplifier Bypass, etc.)
- Polarization Select (RHCP, LHCP, Vertical or Horizontal)
- Stow Lock Indicators (Pins/Interlock/Hand Cranks)
- Analog or Digital Position Encoders (Incremental, Absolute)
- Polarization Rotation Drive
- Multi-Axis/Multi-Positioner Configurations
- Servo Motor Amplifier/Power Supply
- RF Carrier Auto-track/Step Track/Table Track
- GPS/INS Track

Modes / Indicators/ Functions**	PCU (-1)	PCU (-2)	ICU (-1)	ICU (-2)	RCU (-1)	RCU (-2)	PCU-L (*)	DF
Standby	X	X	X	X	X	X	X	X
Slew – Joystick	X	X	N/A	N/A	N/A	N/A	X	X
Point	X	X	X	X	X	X	X	X
Sector Scan (Az)	X	X	X	X	X	X	X	X
Sector Scan (El)	N/A	X	N/A	X	N/A	X	X	N/A
Raster Scan (Az & El)	N/A	X	N/A	X	N/A	X	X	N/A
Autotrack (Forced)	CPT	OPT	OPT	OPT	N/A	N/A	OPT	N/A
Spin	N/A	N/A	OPT	N/A	N/A	OPT	OPT	X
Menu Mode	X	X	X	X	X	X	X	X
Rate (Velocity) Adjust 1-100%	X	X	X	X	X	X	X	X
Az Offset	X	X	X	X	X	X	X	X
El Offset	N/A	X	N/A	X	N/A	X	OPT	N/A
Multiple Positioner Select	CPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Remote/Local Control Support	OPT (*)	OPT (*)	OPT (*)	OPT (*)	OPT (*)	OPT (*)	*	OPT (*)
Front Panel Controls/Indicators	X	X	X	X	N/A	N/A	X	OPT
Remote Control Via PC Serial	X	X	X	X	X	X	X	X
GPIO-488	CPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Ethernet	CPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Fiber-Optics	CPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Size (in.) HXWXL	5.2x19x 19	5.2x19x 19	5.2x19x 19	5.2x19x 19	10x10X 8	10x10X 8	3.5x19x 19	5.2x19x 19
Weight (lbs.)	15 ***	20 ***	15 ***	20 ***	15 ***	20 ***	8	20 ***

(\*) = Requires the 203346A Remote Control Unit in conjunction with the indicated Rack-Mounted Controller in combination for a complete Position/Rate/Servo control loop.

(\*\*) = Other Modes/Indicators/Functions available (e.g., LNA/Band/Polarization Select, True/Relative, AGC/SSR). Consult TECOM Sales Team for options and pricing.

(\*\*\*) = Weight is less optional Servo Motor Amplifier, Relays, etc.