Positioner Controller, Simultaneous

AL-4162

The AL-4162 programmable positioner controller offers real-time control of positioning subsystems used in near-field and far-field antenna measurement systems. Typically, it may be configured to drive planar scanners and general purpose far-field positioners that are encoder-based or involve simultaneous motion.

AL-4162

Applications

- Near-Field & Far-Field Antenna Measurements
- Encoder-Based Positioners & Scanners
- Light & Medium Duty Positioning Subsystems

Product Highlights

- Simultaneous Control Up to 2 Axes
- Includes 1/3 HP Power Control Unit (PCU)
- 2 Independent PWM Channels
- Incremental Encoder Support
- Brush & Brushless Motor Support
- 8 TTL I/O Lines for Auxiliary Component Control
- Dynamic Density Control (DDC)
- User-Friendly Axis Configuration Software
- Communication to Host PC Supported by RS-232 & CAN Bus

Series Overview

Model	AL-4162	AL-4164	AL-4166
Horsepower	Up to 1/3	Up to 3/4	Up to 1.5
Number of Axes	2	4	4

Front Panel

Controls

- AC Power On/Off
- Axis Select
- Direction/Speed
  - Coarse & Fine
- Remote/Local Control (BUS/PANEL)
- Emergency Stop (E-Stop)

Displays & Indicators

- Axis Position
- Limit Indicators
- Homing Status
- Homing Completed

Position Sensors

Axis-Independent Position Sensor Selection

- Incremental Encoder

Closed Loop Motion Control Algorithms

- User Selectable PID or PIV Motion Control Filters (Per Axis)
- Dynamic Braking
- Comprehensive Motion Profiles – Velocity, Parabolic Ramping, S-Curve & Acceleration/Deceleration
- Single or Dual Feedback Encoders

Trigger Functions

Trigger In (Capture Function)

Capture (Latch) Precise Encoder Position from External Trigger:
- Capture Event on Digital Input
- Capture Event on Encoder Index

Trigger Out

Generated at Exact Compared Values (when actual position equals compared position):
- Trigger Rate Up to 4 kHz
- User Selectable Pulse Polarity
- User Selectable Pulse Width

Supplied Accessories

Digital Documentation Set

- User Manual (Installation, Setup, Operation)
- Programming Reference Manual
- Software Setup Utility

Cables

- Cable, CAN, DB9 to RJ45 (for Setup Utility)
- Cable, RS-232, DB9 to RJ45 (for Setup Utility)
- AC Power Cord, IEC-320 (F) to Plug

Options

- ☐ Opt. 101 - Additional Manual Set
- ☐ Opt. 102 - International Localization (Specify Country & Voltage)

■ Standard   ☐ Optional

Note: See AL-4160 series specification table for more information.

Contact your local sales representative for more information
salesteam@mvg-world.com
www.mvg-world.com/positioners