

# C H A P T E R ①

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## *Introduction*

### **Section Objective**

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The information in this section will enable you to:

- Understand the product's basic functions and features

### **OEM070 Description**

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The OEM070 is a compact, stand-alone servo controller designed to operate with analog servo drives. Its small footprint, small depth housing contains a single board that controls motor torque or velocity with a  $\pm 10$  VDC command output to servo drives operating in torque or velocity mode. The board also saves and executes stored programs, as well as interfaces with external devices such as incremental encoders, switches, host computers and Programmable Control Units.

### **FEATURES**

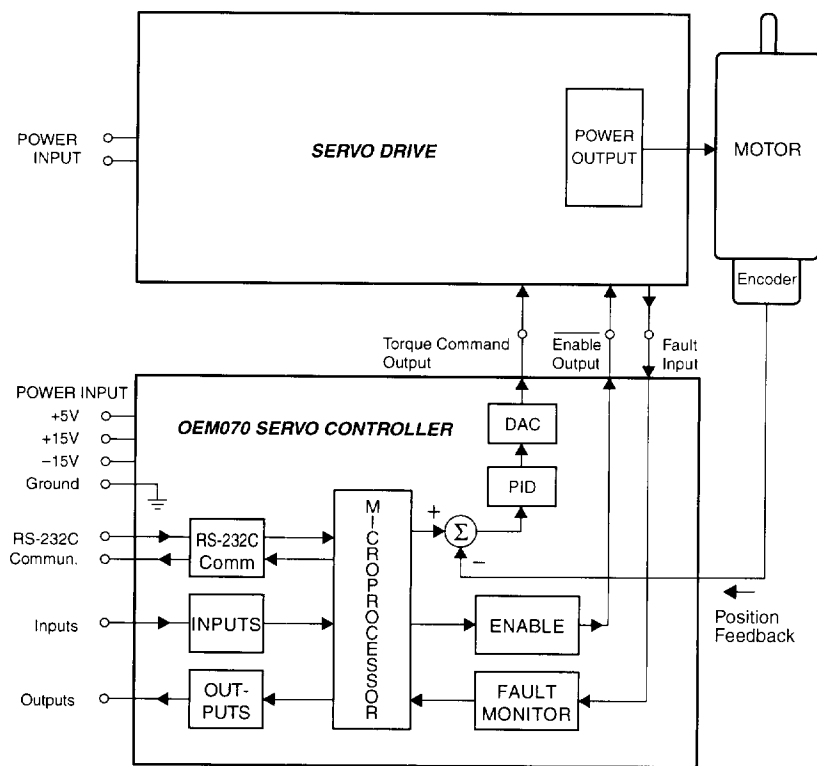
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- The OEM070 is a single axis motion controller for applications such as :
  - Feed to Length
  - Step and Repeat
  - Linear Slide Positioning
- Full PID position servo control to maximize system performance
- 5 user-defined inputs
  - Trigger inputs
  - Sequence select
  - Home
  - Stop or Kill motion
  - Go
- 2 user-defined outputs
- 2K of BBRAM—Essential for program, RS232 address, tuning, and set-up storage

① INTRODUCTION • OEM070

- ❑ Flexible operation modes
  - Stand Alone—Calls programs out of memory via remote inputs
  - On line—Connected via RS232 for continuous streaming of commands
- ❑ Uses standard differential or single-ended optical encoders for position information
- ❑ RS-232C communication for programming or direct operation
- ❑ Can daisy chain up to 255 units
- ❑ 960 kHz encoder input frequency
- ❑ Enable input for hardware disable
- ❑ Can store 7 programmed sequences in memory
- ❑ Dedicated CW, CCW limit inputs
- ❑ Fault Output can notify external system of servo fault

**BLOCK DIAGRAM**



OEM070 Servo Controller – Block Diagram