



***Bidirectional programmable counter . . . with powerful specialized features for position indication and control***

At last – a predetermining counter that makes design and operation of automated positioning controls easy. The **MAX Position 1** is perfect for state-of-the-art control systems, or the modernization of existing manually operated equipment. Besides providing a highly readable LED position display, its eight outputs send logic information to motor control systems, as to actual position status being greater than or equal to, or less than, each of its four position-presets.

- Industrial grade enclosure with NEMA-4 rated front panel – tactile response keys
  - Large 8 decade LED display with programmable decimal point
  - 40 kHz count speed for error-free tracking at high slew rates
  - Bidirectional counting input accepts encoders and other transducers
  - 4 position presets, each with 2 outputs that signal position status relative to limits
  - Display and preset of position above and below zero (minus sign)
  - Short circuit proof, 12 VDC power output for external transducer
  - Non-volatile memory during power loss of count, presets, and program
  - Input and setpoint for automatic reference synchronization
  - RS-422/485 port supports remote data transfer with PLC or computer
- Many convenience features are provided, such as: 115/230 VAC operation, power supply output for encoders and other transducers, and easy-to-wire screw-terminal-blocks.

## SPECIFICATIONS

- Display:** Red, 0.6" high (15.4 mm) LED; programmable decimal point position
- Front Panel:** Membrane laminate, NEMA-4 rated when mounted with panel gasket, tactile response keys
- Input Power:** Selectable, 100 to 130 VAC or 200 to 260 VAC, 50/60 Hz, 20 VA (12 VDC @ 0.3 A optional).
- Transducer Power:** Output of 12 VDC, 120 mA maximum
- Memory:** Nonvolatile; retains all program and data during absence of power
- Security:** Program lock; user lock
- Signal Inputs:** 2 inputs, contact-closure or 3.5 to 15 VDC square wave
- Count Capacity:** 6 decades with polarity
- Calibration:** 6 decade multiplier. Range 0.00001 to 9.99999
- Presets:** 4 individual position comparison limits, each with 2 dedicated outputs
- Control Inputs:** Reference Enable; Output Disable; Reset; Reference Input; Contact closure or 12 volt square wave; 25 msec. minimum pulse width (320 µsec minimum for reference input)
- Outputs:** 8 NPN transistors, rated 28 VDC/100 mA sink, maximum
- Output Logic:** Outputs function in pairs, one output detects count value greater than or equal to preset, other detects count value less than preset
- Serial Interface:** RS-422, ASCII, programmable baud rate
- Operating Temperature:** 32° to 122°F (0° to 50°C)
- Weight:** 2.5 lbs. (1.13 kg.)

Model No.	Description
MP100S00	MAX Position 1, position indicator, AC Powered
MP100D00	MAX Position 1, position indicator, DC Powered

