



**Two channel rate plus
draw indicator and
controller with serial
communication port**

The **MAX Tach 1** is the leader in microprocessor based rate and draw instruments. The large LED display and informative annunciators combine with menu-driven programming to simplify setup and operation. Two rate channels that accommodate both low resolution and high speed inputs making input sensor selection noncritical. A programmable draw function allows complex monitoring of processes previously requiring more complicated instrumentation. Communications is provided by the standard serial port or with an optional interface to a parallel BCD data buffer.

- 0.01% accurate time interval measurement
- Large, bright 0.8" high red LED display
- Full ± 5 digit display capability
- Draw modes available: difference (A-B); ratio (A÷B); percent draw (A-B) ÷ A or (A-B) ÷ B
- High and low alarm setpoints with indicators and outputs for rate A, rate B and draw (six total)
- Sealed NEMA 4 front panel
- Separately programmable calibrators and decimal point position for each channel
- Full duplex RS-485/422A serial communications
- Built-in diagnostics

Rate monitor and control applications for the MAX Tach 1 include production rate, material speed and motor RPM. Use of the draw functions would include gear ratio, web or material stretch, conveyor matching and blending machinery.

SPECIFICATIONS

Panel Mounting: 2.68" x 5.43" cutout; 5.68" depth

Accuracy: $\pm 0.01\%$ crystal controlled

Inputs: Pulsed (square wave) current source; 30 kHz max.

Display: 5 digit, 0.8" LED; update rate 0.6 seconds or 1 signal period

Alarms: (6); 1 high and low each for rate A, rate B and draw; open collector outputs

Calibration: Independent for A and B; programmable 0.0001 to 99999.

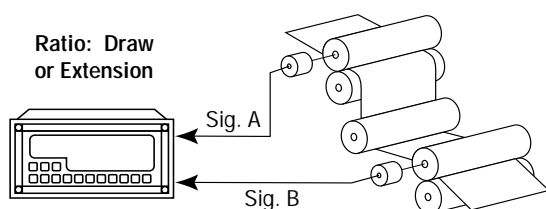
Power Requirements: 95 to 130, or 190 to 260 VAC, 50/60 Hz, 6 VA; 9 to 15 VDC @ 0.3 A max.

Accessory Power: + 12 VDC $\pm 5\%$ @ 0 to 175 mA

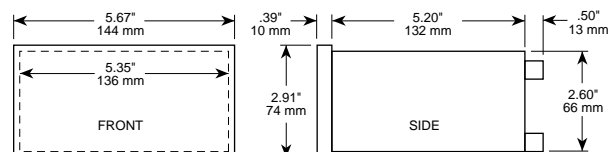
Operating Temperature: 32° to +122°F (0° to +50°C)

Model No.	Description
MT100S00	MAX Tach 1 Dual Rate and Draw Controller, 115 or 230 VAC
MT100D00	MAX Tach 1 Dual Rate and Draw Controller, 10 to 26 VDC
MT101S00	MAX Tach 1 with provision for BCD output, 115 or 230 VAC
MT101D00	MAX Tach 1 with provision for BCD output, 10 to 26 VDC
PM621S00	Parallel BCD Output Buffer for MAX Tach 1, Open Collector Outputs

Typical Applications:



Dimensions:



Panel Dims: Cutout: 2.68" x 5.43". Thickness: 1/16" to 1/4". Depth: 5.68" min.