



TACHTROL® 3 Dual Input Digital Tachometer Part Number Series T77310

The **Airpax® Tachtrol 3** computing tachometer is a single or dual channel instrument. It measures input frequencies and displays the resulting quantities in RPM, FPM, % Draw or other rates.

Measurement using the period mode (time per event) permits a combination of fast response and high accuracy not available in other industrial speed instruments. A unique method of setting conversion factors and instrument functions permits it to be easily configured or altered anytime during the instrument life.

Features & Advantages

- Single or dual channel
- 9 computed functions
- Measures speed or frequency (2 Hz to 30,000 Hz)
- Adjustable normalization
- Active or passive sensor inputs
- Auto ranging LED display
- AC or DC power
- Panel mount DIN housing

- Function indicators
- 2 relay setpoints
- 4-20 mA, 0-20 mA outputs
- 0-10 Vdc, 0-5 Vdc output
- RS232C serial output
- Expanded and suppressed scale analog outputs
- Optional industrial housings
- Easily re-configured
- ±.05% display and relay accuracy
- 100-200 millsec. response
- Field adjustable conversion factors
- MIL 810C vibration and shock
- 0-50°C operating temperature
- Mixed output functions

Applications

A Tachtrol 3 unit is typically used with magnetic sensors as a signal source. However, it may receive a sine wave or TTL signal from any frequency source. The resulting speed or computed function is used for display, alarm or other transmission. It will be superior in applications requiring fast update times and high accuracies. As this instrument

may be re-configured easily, it should be used when scaling factors are subject to change (requirement changes, roll wear, etc.). Certain constant settings produce outputs very useful to very specific applications. *Here are some examples:*

- Fast response overspeed shutdown
- 2 Channel Speed/Draw Monitor
- Bi-directional Tachometer
- Reverse Rotation Alarm
- Low Speed Tachometer
- Clutch Slip Alarm
- Winder Control
- Ahead/Astern Marine Tachometer
- Expanded Analog Scale Speed Transmitter
- Flow Rate Monitor
- Process Time Monitor
- Time per Event Monitor
- Autoranging Tachometer
- Computer Signal Conditioner
- Averaging Tachometer
- Line Frequency Monitor 60.00 Hz/400.0 Hz
- RS232 Speed Transmitter

Ordering P/N	Input Power	Enclosure	Net Weight (lbs.)
T77310 -01	120 Vac/24 Vdc	† Less Encl. } For Explosion Proof	3.3
-02	240 Vac/24 Vdc	† Less Encl. } or NEMA 4X	3.3
-11	120 Vac/24 Vdc	Std. Panel Mount	2.6
-12	240 Vac/24 Vdc	Std. Panel Mount	2.6
-21	120 Vac/24 Vdc	Splashproof Panel Mount	2.7
-22	240 Vac/24 Vdc	Splashproof Panel Mount	2.7
-41	120 Vac/24 Vdc	NEMA 4X *	4.5
-42	240 Vac/24 Vdc	NEMA 4X *	4.5
-71	120 Vac/24 Vdc	Explosion Proof **	39.0
-72	240 Vac/24 Vdc	Explosion Proof **	39.0

† See page 21 for dimensions
 * See page 19 for dimensions
 ** See page 20 for dimensions

It is the customer's responsibility to determine whether the product is proper for customer's use and application.