

TACH•PAK® 3 Digital Process Tachometer

CSA Listed
Part Number Series T 77430



Faster - More Accurate - Field Programmable

The Tach•Pak 3 computing tachometer is a single channel instrument. It measures input frequency and converts the resulting quantities to a meter output, an analog output and four relays.

The microcomputer-based Tach•Pak 3 tachometer uses adaptive period averaging which permits a combination of fast response and high accuracy not available in other industrial speed instruments. The instrument functions can easily be programmed in the field or altered at any time using a unique internal switch design.

Typically, a Tach•Pak 3 tachometer is 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 is used for meter output, analog output or alarms. It is superior in applications requiring fast update times and high accuracy.

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

Features & Advantages

Quicker Response Time - 50 milli-second updates above 100 Hz.

Higher Level of Accuracy - $\pm 0.5\%$ for analog outputs and $\pm 0.05\%$ for relay setpoints in operation over temperature ranges.

Field Programmable - Adaptable to various applications and requirements by utilizing a unique internal switch design. No additional calibration equipment required.

Digital Configuration - Utilizes adaptive period averaging and floating point calculation.

2 Analog Current Outputs - 0-1 milliamps. 0-20 or 4-20 milliamps.

4 Relays - Sealed 6 amp SPDT auto reset or latching.

AC or DC Power - Adaptable to either AC or DC power source.

Applications

- Fast response overspeed shutdown
- PLC or DCS Interface
- Petrochemical production
- Pump or generator alarm
- Low speed tachometer
- Expanding analog scale speed transmitter
- Start-up, over/under speed switching
- Textile production applications
- RPM measurement
- Paper and pulp production
- Turbine speed control input
- Metal production
- Mining applications
- Frequency measurement
- Test labs
- Generator sets
- Food processing
- Conveyor protection
- Printing industry

| Ordering P/N | Input Power | Enclosure | Net Weight (lbs.) |
|--------------|----------------|--------------------|-------------------|
| T77430-11 | 120 Vac/24 Vdc | Standard NEMA 1 | 2.7 |
| -12 | 240 Vac/24 Vdc | Standard NEMA 1 | 2.7 |
| -41 | 120 Vac/24 Vdc | NEMA 4X * | 5.9 |
| -42 | 240 Vac/24 Vdc | NEMA 4X * | 5.9 |
| -71 | 120 Vac/24 Vdc | Explosion Proof ** | 39.0 |
| -72 | 240 Vac/24 Vdc | Explosion Proof ** | 39.0 |

* See page 19 for dimensions

** See page 20 for dimensions