

ACT Series Panel Tachometers/Totalizers



ACT-3X

The ACT Series Panel Tachometers consists of two models — one tachometer and one tachometer/rate meter/totalizer. Both feature inputs for two and three wire sensors providing signals of 0-5V TTL or 0-1.1VAC to 0-50VAC. Both models operate with all Monarch sensors (see Pages 17-20) and display in fixed or floating decimal point format. The ACT-3X dual channel input provides the best feature set of any panel or benchtop instrument available today.

Features of the ACT-1B:

- 5-99,999 RPM
- Economically priced
- Output options: 4-20mA, 0-5VDC or TTL pulse

Features of the ACT-3X:

- 5-999,990 RPM
- NIST Traceable Calibration Certificate
- Standard TTL pulse repeater output
- Optional 4-20mA, 0-5VDC, and 2 alarm outputs
- Single event capture from start and stop pulses in units such as mph, cm/sec, etc. using two sensors for linear rate of travel on second input channel



Specifications*	ACT-1B	ACT-3X
Speed Range	5-99,999 RPM	5-999,999 RPM (speeds below 5 RPM possible with multiple pulses per revolution)
Accuracy	± 1 RPM or 0.005% of reading	± 0.001% of reading or ± 1 of displayed value (standard gate) ± 0.006% of reading or ± 1 of displayed value (fast gate)
Resolution	1 RPM	Up to 0.001 RPM, 10 RPM (100,000 to 999,990 RPM)
Totalizer/Counter	N/A	Display Range: 0.001 to 99,999
Alarm Capability	N/A	Two alarm set points: set as High or Low; latching or non-latching Hysteresis and low limit lockout are programmable
Alarm Output	N/A	Two Form C relay contacts rated 1 Amp at 230VAC, can be set as failsafe
Communications	3.5 mm phone plug	Standard serial: 3.5 mm phone plug Optional: RS232C, USB type B or Ethernet
Scale Factor	N/A	0.0001-9999.9
Input Configuration	Universal inputs for all Monarch Sensors or TTL input or 1.5 to 50VAC input	
Analog Output	Voltage: 0-5VDC, 5mA max load or Current: 4-20mA, 500Ω max. 1-5VDC with 250Ω resistor	
Pulse Repeater	0-5V TTL compatible. One pulse out for each pulse in.	
Display	5 digits, 0.56" (14 mm) high red LED	
Display Update	2x per second above 120 RPM	
Input Power	Standard: 100-240VAC, 50/60Hz Optional: 12 or 24VDC ± 20%, Isolated, 5 watts	
Sensor Power	5VDC or 12VDC or optional 24VDC to sensor	
Dimensions	1/8 DIN by 4.5" (114 mm) deep	

*Specifications are subject to change without notice.

PM Remote Software

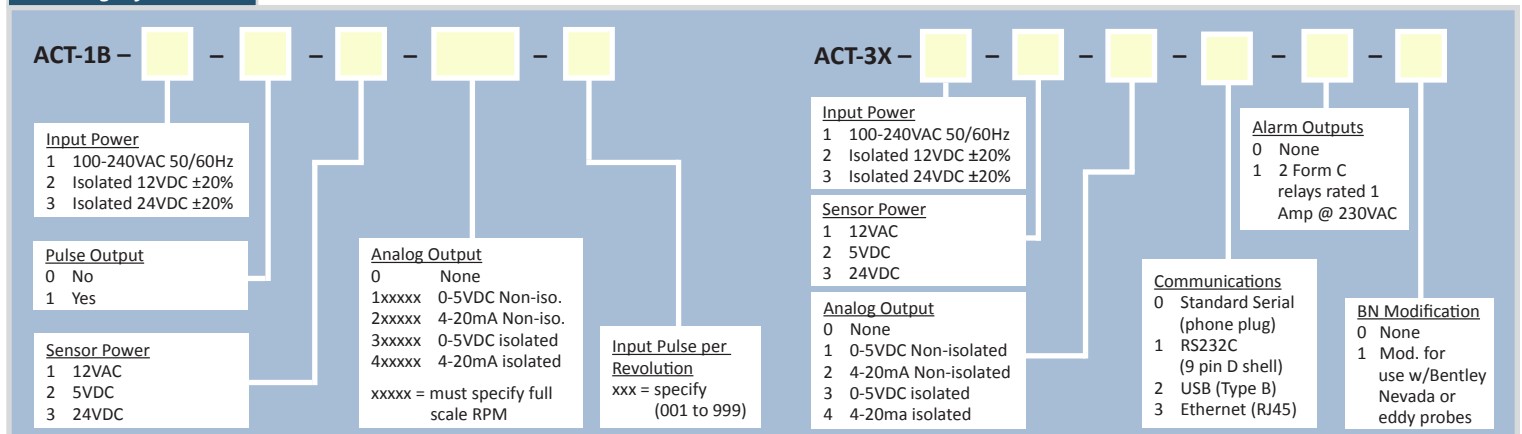


Free downloadable Windows®-based software application to further enhance the ACT Panel Tachometer's capabilities. Use your PC to customize the ACT's configuration or view real-time data over the communications interface.

- Set the mode of operation to RPM, RPS or Frequency
- Select the input scale (pulses per revolution)
- Real-time data can be displayed directly on the PC along with min and max values
- Decimal places and display update rate are user configurable
- And much more...

[See Monarch's website for full details.](#)

Ordering Information



Accessories available on website

For details, see ACT webpages.