Programmable Panel Tachometers

Monarch ACT-1B

The ACT-1B is an economical and easy to use digital tachometer that displays rotational speed directly in RPM or RPS on a 5 digit Red LED display. The input signal uses speed sensor providing a single pulse or multiple pulses per revolution. The number of pulses is factory set, but can be user programmed from 1 to 999 using the optional PM Remote Software. Power input of 100 to 240VAC is standard, with the option of 12v or 24v dc. The ACT-1B accepts input signals from optical, proximity, magnetic, infrared or laser sensors. Alternatively, direct TTL or external ac inputs are accepted. The ACT-1B is suitable for panel mounting or bench top use with convenient screw terminal connections on the rear panel. If specified the ACT-1B may be optionally equipped with either an analog output of 4-20mA or 0-5Vdc proportional to speed, and/or a TTL pulse repeater output.

Features
- 5 Digit LED display
- 5 to 99,999 RPM range
- Universal sensor inputs
- Compatible with most speed sensors
- User configurable (Optional)
- View real-time data on PC (Optional)
- Real-time Excel data storage (Optional)
- Optional 4-20mA or 0-5Vdc scalable output

Applications
- Process monitoring
- Research and development
- Field testing
- Engine performance
- Control panels
- Marine testing
- Utilities
- Manufacturing
- Quality control
- Predictive maintenance

Specification	ACT-1B
Speed range (RPM)	5 to 99,999
Accuracy	±1 RPM or 0.005% of reading
Resolution (RPM)	1
Display	5 digit, 14 mm high red LED
Display update (per second)	2 above 120 RPM, Programmable with PM Software
Dimensions	1/8 DIN x 114 mm deep
Power supply (standard)	100 - 240 VAC ±10%, 50/60 Hz
Power supply (optional)	12 or 24 Vdc ±10%
Inputs	Universal input for optical, proximity, two wire or three wire magnetic, infrared or laser sensors.
TTL input	TTL input or 1.5 VAC to 50 VAC input
Recommended sensors	Monarch ROS-W (optical), Monarch P5-11 (proximity), Monarch M-190W or MT-190W (magnetic), Monarch IRS-W (infrared), Monarch ROLS-W (laser)
Output options	4 to 20 mA, 0 to 5 Vdc, 0 to 5 V TTL (programmable using PM Software)
Environmental	Indoor use only
Temperature (°c)	-10 to 50
Humidity	80% up to 31°C