ACT Series

ACT-3 Panel Tachometer/Ratemeter/Totalizer

Example Applications:
- Control rooms
- Alarm shutdowns
- Field testing
- Data acquisition
- R&D testing

The ACT Series consists of four models - three tachometers and two tachometer/ratemeter/totalizers. All feature universal input for two and three wire sensors providing signals of 0-5V TTL or 0-200 mVac to 0-50 Vac. All models operate from optical, infrared, laser, proximity or magnetic sensors (see Page 7) and display in fixed or floating decimal point format. The ACT-3 provides the best user benefits of any panel instrument available today.

Features

ACT-1B (5-99,999 RPM)
- One pulse/revolution (ACT-1B) or 60 pulses/revolution (ACT-1B-60)
- Output options: 4-20 mA (12 bit), 0-5 Vdc (12 bit) or TTL pulse

ACT-2A (5-999,990 RPM)
- Front panel programmable
- One or multiple pulses/revolution, scaling or totalizing
- Minimum and maximum memory recall

ACT-3 (5-999,990 RPM)
- N.I.S.T. Traceable Certificate of Calibration included
- Simultaneous 4-20 mA, 0-5 Vdc (12 bit), TTL pulse and 2 Alarm outputs and RS232.
- Single event speed capture from start and stop pulses, in units such as MPH, cm/sec, etc. Using one sensor - rotational, loop or reciprocating motion. Using two sensors - linear travel.

ACT-1B Panel Tachometer

ACT-3 Panel Tachometer/Ratemeter/Totalizer

Specifications	ACT-1B	ACT-1B-60	ACT-2A	ACT-3
Speed Range	5-99,999 RPM		5-999,990 RPM (Speeds below 5 RPM possible with multiple pulses/revolution)	
Accuracy	±1 RPM		RANGE	RESOLUTION (autoranging mode) ACCURACY (±0.0015%) of reading
Resolution	1 RPM		5.000-9.9999	0.0001
			10.000-99.999	0.001
			100.00-999.99	0.01
			1000.0-9999.9	0.1
			10,000-99,999	1
			100,000-499,999	10
			500,000-999,990	10
Input Configuration	1 pulse/rev	60 pulses/rev	1 or multiple pulses/rev. Front panel push button programmable	
Alarm Output	N/A			Form C relay contacts rated 1A at 115 Vac
Alarm Capability	N/A			Two alarm set points each, front panel programmable as either high or low, latching or non-latching. Hysteresis and low limit lockout are programmable.
Analog Outputs	Optional: Current Output (IO): 4-20mA (12 bit) **OR** Analog Output (AO): 0-5Vdc (12 bit) *MUST SPECIFY FULL SCALE RPM FOR EITHER OPTION		N/A	Voltage Output 0-5Vdc and Current Output 4-20mA. Panel programmable for common full scale RPM or offset ranges. Example: 0V=3600 RPM/5V=5000
Output Update Rate	Once per second		N/A	Standard up to 25 times/second. Programmable up to 233 times/second.
Pulse Repeater Output (PO)	Optional: Pulse Output 0-5 V TTL compatible. Pulses out per rev equal pulses in per rev		N/A	Pulse Output 0-5V TTL compatible. Pulses out per revolution equal pulses in per revolution
Scale Factor	N/A		0.0001-9999.9	
Totalize/Count	N/A		1-99,999	
Display	5 digits, 0.56" (14 mm) high red LED			
Display Update	Once per sec above 60 RPM		Twice per second above 120 RPM	
Dimensions	1/8 DIN by 4.5" (114 mm) deep		1/8 DIN by 7" (178 mm) deep	
Power	Must Specify 115V, 230V (50/60 Hz) or 12Vdc input power - Tachometer provides 5-8 Vdc power to sensors			