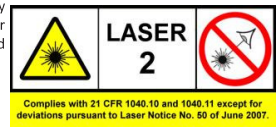
PLT200
Pocket Laser Tachometer



The ***Pocket Laser Tach 200 (PLT200)*** is a digital, battery-powered portable optical tachometer, which operates up to 25 feet (8 meters) from a reflective target using a class 2 laser light source. The ergonomic design allows safe, direct line-of-sight viewing of both the target and the display at the same time, while providing a non-slip rubber surface for single hand operation.

Multifunction Tool

The **PLT200** is a 32 function Tachometer/Rate meter, Totalizer/Counter and Timer (stopwatch), which is programmable in both Imperial and Metric rates. Includes two phone plug connectors for our optional Remote Contact Assembly (RCA) or remote sensors. The **PLT200** also has a TTL compatible pulse output to trigger devices like vibration data collectors or stroboscopes. The KIT is supplied complete with a Remote Contact Assembly including concave and convex tips and a 10 cm linear speed wheel all in a latching carrying case. Sensors and input/output cable are optional.



Features

- Contact or Non-Contact modes
- View display and target simultaneously
- Lightweight
- Operates up to 25 feet from target
- Use remote sensors
- TTL input/output (3.5mm phone plug)



View Display and Target

Specifications

Display:	5 Digits, 5 Alphanumeric LCD	
Range (Optical):	5 to 200,000 RPM (subject to ambient light intensity)	
Range (Contact):	0.5 to 20,000 RPM (also reads RPS and RPH)	
Rates	10cm Contact Wheel	12 inch Contact Wheel
Inch/min	1.969 to 78,740	6.000 to 144,000
Feet/min	0.164 to 6,561.7	0.500 to 12,000
Yard/min	0.055 to 2,187.2	0.167 to 4,000
Cm/min	5.000 to 200,000	15.240 to 365,760
Meter/min	0.050 to 2,000.0	0.153 to 3,657.6
Totalizer:	1-999,990 (events or length)	
Timer:	99:59.9 Min, sec, tenths	
Accuracy:	Optical: ±0.01% of reading Contact: ±1.0% of reading	
Resolution:	0.001 to 10 RPM (range dependent)	
Operating Distance:	2" to 25' (5cm to 7.62m), ±70° from perpendicular	
Memory:	Max, Min and Last	
Power:	(2) "AA" 1.5Vdc batteries (30 hours)	
Environmental:	5° to 40° C (40° to 105° F), 80% RH up to 31° C (88° F)	
Dimensions:	6.92 x 2.4 x 1.6in (17.58 x 6.10 x 4.06cm)	
Weight:	7 ounces (210 grams)	

Ordering Information

Item	Description	Part No.
PLT200	Tachometer, NIST Cert., batteries, 12 inches of T-5 tape	6125-010
PLT200 Kit	Tachometer, NIST Cert., batteries, latching carry case, RCA with tips, linear speed wheel, 5 foot roll of T-5 tape	6125-011
	Accessories	
ROS-P	Remote Optical Sensor (LED) with 8' cable, 1/8" (3.5mm) phone plug and 12 inches of T-5 tape	6180-057
T-5 tape	Reflective tape 5' roll, 0.5" wide	6180-070
12" Wheel	Linear contact wheel with 12" circumference for use with RCA (Remote Contact Assembly)	6580-011

PT-99
Pocket Tachometer



The ***Pocket Tach 99 (PT99)*** is a digital, battery-powered portable non-contact optical tachometer, which operates up to 36 inches from a reflective target using a bright red LED light source. The ergonomic design allows safe, direct line-of-sight viewing of both the rotating target and the display at the same time, while providing a non-slip rubber surface for single hand operation. The **PT99** is the value-leader of the world-class Pocket Tach Series from Monarch.

Features

- 36 inch operating distance
- One hand operation
- LED light source
- Simple operation

Specifications

Display:	5 Digits, 5 Alphanumeric LCD
Range:	5 to 99,999 RPM
Accuracy:	0.01% or ± 1 Digit
Resolution:	Auto ranging: 0.001 to 1 RPM Fixed: 1 Digit
Operating Range:	2" to 36" (5cm to 91.44cm), ± 45° from perpendicular
Memory:	Max, Min and Last
Power:	(2) "AA" 1.5Vdc batteries (60 hours)
Environmental:	5° to 40° C (40° to 105° F), 80% RH up to 31° C (88° F)
Dimensions:	6.92 x 2.4 x 1.6in (17.58 x 6.10 x 4.06cm)
Weight:	7 ounces (210 grams)

Ordering Information

Item	Description	Part No.
PT99	Tachometer with 12 inches of T-5 tape, batteries	6109-010

ACT Series
Panel Tachometers/Totalizers

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 0-1.1 Vac to 0-50 Vac. Both models operate with all Monarch sensors (see Pages 15-18) and display in fixed or floating decimal point format. The **ACT-3X** dual channel input provides the best feature set of any panel or bench top instrument available today.



Features

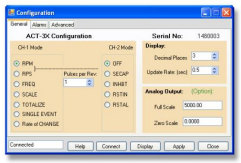
ACT-1B

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

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

PM-Remote Software



Both the **ACT-1B** and the **ACT-3X** can be used with the Windows based PM Remote Software to further enhance their capabilities. Use your PC to customize the configuration of the **ACT-1B** and **ACT-3X** or view real-time data over the communications interface. PM Remote Software is included with the optional USB Programming Cable for the **ACT-1B** and the **ACT-3X** (with standard serial option) and is included with the **ACT-3X** when ordered with RS232C serial, USB or Ethernet communication options. (*See page 14 for full details.*)

Specifications	***ACT-1B***	***ACT-3X***
Speed Range:	5-99,999 RPM	5-999,990 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 1Amp at 230 Vac, can be set as failsafe
Communications:	Optional (3.5mm phone plug)	Standard (3.5mm phone plug), Optional: RS232C, USB type B or Ethernet
Scale Factor:	N/A	0.0001-9999.9
Totalize/Count:	N/A	1-99,999
Input Configuration:	Universal inputs for all Monarch Sensor 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" (14mm) high red LED	
Display Update:	2x per second above 120 RPM	
Dimensions:	1/8 DIN by 4.5" (114mm) deep	
Input Power:	Standard: 100-240Vac, 50/60Hz Optional: 12 or 24Vdc ±20%, Isolated, 5 watts	
Sensor Power:	5 Vdc or 12 Vdc or optional 24Vdc to sensor	

Ordering Information

