



MONARCH INSTRUMENT

Instruction Manual

POCKET LASER TACHOMETER 200 (PLT200) **Tachometer/Rate Meter/Totalizer/Timer**



NIST
CALIBRATION



15 Columbia Drive

Amherst, NH 03031 USA

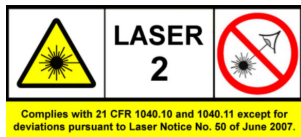
Phone: (603) 883-3390 • Fax: (603) 886-3300

E-mail: support@monarchinstrument.com

Website: www.monarchinstrument.com



SAFEGUARDS AND PRECAUTIONS



Diode Laser

Max. Output Power: **<1 milliwatt**

Wavelength: **650 nanometers (visible light)**

Beam Divergence: **<18 milliradian**

Output: **Continuous (CW)**

Laser Hazard Classification: **Class 2**

Laser Hazards:

Eye injury from beam - Do not look into the direct or reflected beam; can cause eye injury up to 25 ft. [7.5 m] away.

Visual interference (glare) with pilots and drivers - Interferes with vision up to 525 ft. [160 m] away. Can be a distraction up to 1 mile [1.6 km] away. ***NEVER point any laser towards aircraft or vehicles; it is unsafe and illegal.***

Safe Use Guidance:

Class 2 lasers are considered safe for accidental eye exposure. Do not look or stare into beam. Do not aim at aircraft. ***This is not a toy.*** Always supervise children.

Manufacturer:

Monarch Instrument
15 Columbia Drive
Amherst, NH 03031 USA
Country of Origin: USA
Contact info: www.monarchinstrument.com



Read and follow all instructions in this manual carefully, and retain this manual for future reference.

Do not use this instrument in any manner inconsistent with these operating instructions or under any conditions that exceed the environmental specifications stated.

This instrument is not user serviceable. For technical assistance, contact the sales organization from which you purchased the product.



To comply with worldwide regulations such as the U.S. Environmental Protection Agency Resource Conservation and Recovery Act (RCRA) and EU Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), you must not discard this electrical/electronic product in domestic household waste. The electronic components in this device may contain environmentally harmful substances. **DO NOT DISPOSE** of this product as unsorted municipal waste. This product needs to be **RECYCLED** and disposed of in accordance with environmental regulations in the country of use; contact your local authorities for more information. This product may be returnable to your distributor for recycling; contact the distributor for details.



The PLT200 is provided with nonchargeable AA Alkaline batteries which must be recycled and disposed of in accordance with Federal, State, and Local Regulations. Do not incinerate. Batteries should be shipped to a reclamation facility for recovery of the metal and plastic components as the proper method of waste management. Contact the distributor for appropriate product return procedures.



Battery compliance information for the AA Alkaline batteries supplied with the PLT200 as required for European Regulation (EU) 2023/1542 concerning battery use, waste management, and environmental protection is available online. Scan the QR code or visit: <https://monarchinstrument.com/resources/aa-alkaline-battery-compliance-information/>

Monarch Instrument's Limited Warranty applies. See www.monarchinstrument.com for details.

Warranty Registration and Extended Warranty Coverage information is available online at www.monarchinstrument.com.

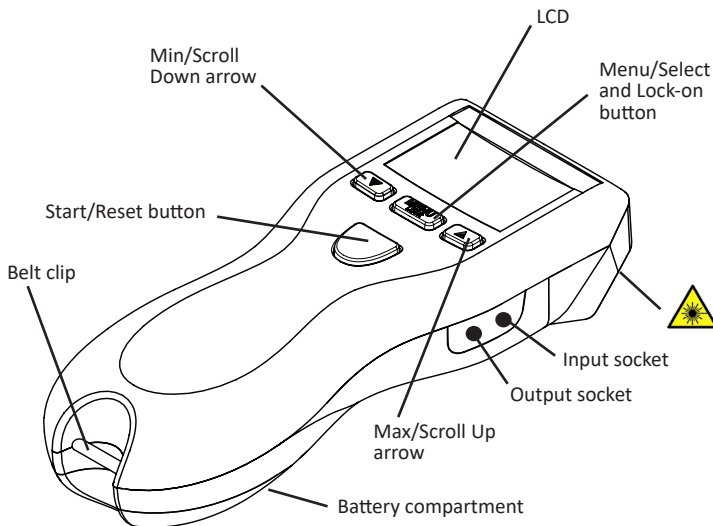
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1.0 DESCRIPTION

The Pocket Laser Tachometer 200 is a multifunction tachometer, rate meter, totalizer and timer. It is programmable to read in English or metric units. An input socket accepts remote sensing devices and an output socket allows for pulse output to external indicating devices. The PLT200 can be tripod mounted and locked-on for accurate and continuous operation. This tachometer also stores minimum, maximum and last measurement in memory.

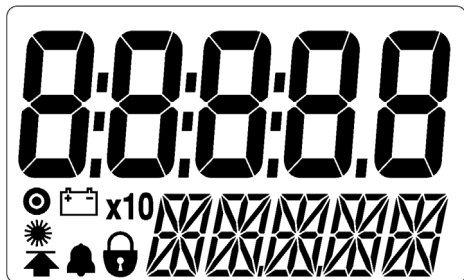
2.0 FEATURE LOCATIONS



AVOID EXPOSURE

LASER BEAM IS EMITTED FROM THIS APERTURE

3.0 LCD SYMBOLS



On-Target Indicator — blinks whenever there is an input signal and will appear to be solid on at higher frequencies



Low Battery icon — indicates that the batteries are low and need to be replaced



Times Ten icon — indicates that the value shown is ten times that which is displayed

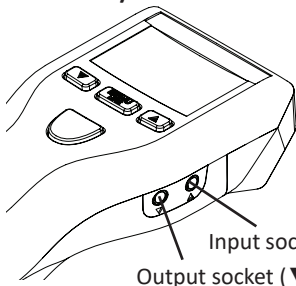


Laser Indicator — red laser is on when this indicator is illuminated



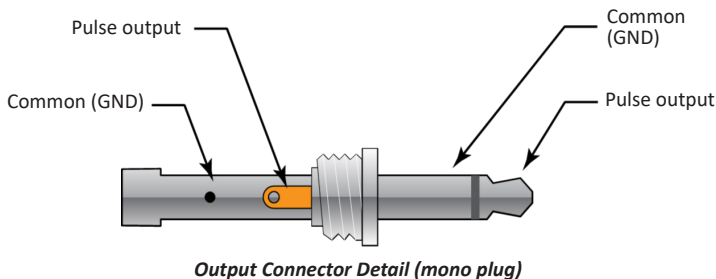
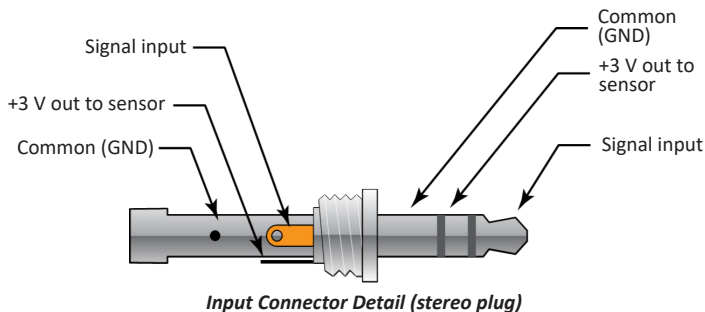
Lock icon — indicates that the unit is locked and making continuous measurements (Lock Mode)

4.0 INPUT/OUTPUT



Input: Accepts remote sensor or Remote Contact Assembly (RCA)
1/8" [3.5 mm] stereo phone plug

Output: 1 pulse per revolution TTL output on internal operation; pulse repeater with external sensors
1/8" [3.5 mm] mono phone plug



5.0 REMOTE CONTACT ASSEMBLY

The **Remote Contact Assembly (RCA)** is an accessory that converts the PLT200 into a contact tachometer allowing for measuring contact RPM, linear speeds, or totalizing lengths. Included with the PLT200 Kit or sold separately, it needs to be plugged into the tachometer to be functional. It is supplied with two rubber contact tips (one concave and one convex) and a 10 cm linear wheel. An optional 12-inch linear wheel is available. The maximum operating range is 20,000 RPM when used with a contact tip and 12,000 RPM when used with a linear wheel. The RCA outputs 12 pulses per revolution (PPR).

5.1 RCA Connection Detail

Connector pinouts are shown in Figure 1.

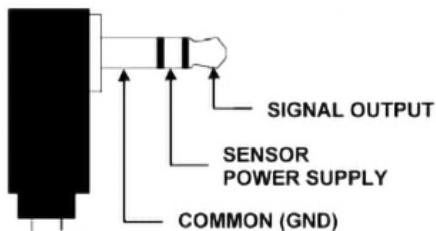
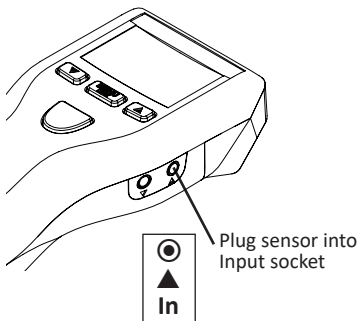


Figure 1 RCA Output Connector - Connection Detail

6.0 PREPARATION FOR MEASUREMENT

6.1 Connecting External Sensors



Remote Contact Assembly (RCA)
(shown with optional 12-inch Wheel)



Remote Optical
Sensor (ROS-P)



Infrared Sensor
(IRS-P)



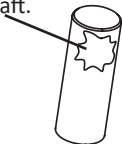
Magnetic Sensor
with Amplifier
(MT-190P)

Please visit www.monarchinstrument.com for additional sensor options.

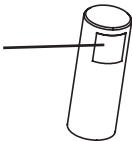
6.2 Noncontact Preparation

Follow the steps below for internal operation (red laser) or external operation using optional Remote Optical Sensor (ROS-Red LED):

1. Clean shaft.



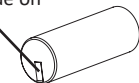
2. Apply 1/2" square of T-5 Reflective tape.



For small shafts:



As small as 1/8" wide on side or radius edge



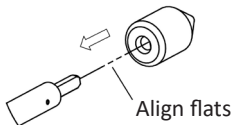
6.3 Direct Contact Preparation Using RCA

Plug the RCA into the 3.5 mm stereo input jack of the PLT200.



Select and install contact option:

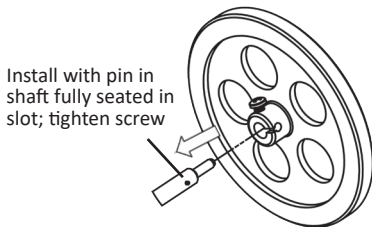
1. Contact Tip (convex tip shown)
Use concave tip for small shafts



2. 10 cm Wheel OR
3. 12 in. Wheel



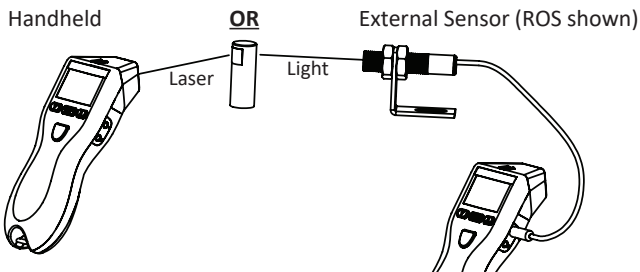
Tighten screw securely into flat on shaft



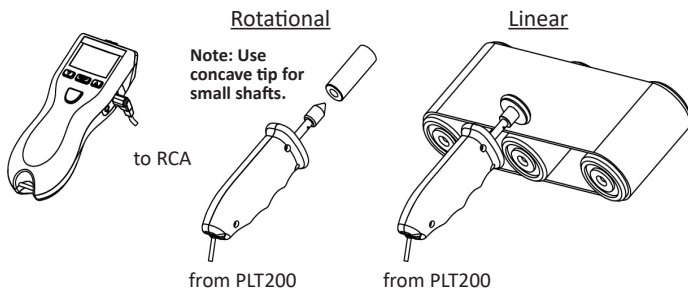
Install with pin in shaft fully seated in slot; tighten screw

7.0 TAKING MEASUREMENTS

7.1 Noncontact Measurements



7.2 Direct Contact Measurements



ONLY USE MODERATE PRESSURE

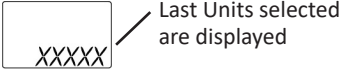
WARNING: Making measurements in direct contact with rotating equipment can be dangerous. Keep all loose clothing and hair away from exposed moving machinery. Keep the hand holding the instrument well behind the back end of the Remote Contact Assembly. Properly replace all machinery guards after completing measurement. Do not use for rotation greater than 20,000 RPM.

8.0 TACHometer MODE

A tachometer measures speed or linear rate with respect to time; time intervals are seconds, minutes, or hours. Rotational speed can be measured in Revolutions (Revs) per second, per minute, or per hour. The most common measurement is RPM or Revs per minute using the optical Tachometer Mode.

8.1 TACHometer Setup

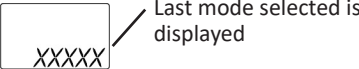
1. Turn Power ON


- 1a. To toggle Lock On/Off

Press and hold

2. Enter Setup


3. Enter selection of Mode


4. Select TACH Mode
 OR  Repeat until *TACH* displayed
5. Save and advance



6. Enter selection of Units


RPS, RPM or RPH
7. Select Units

OR

Repeat until desired Units displayed
8. Save and advance


9. Enter selection of number of decimal places


NONE, 1, 2 or 3
10. Select decimal places

OR

Repeat until desired decimal places displayed
11. Save and advance


12. Exit Setup – ready to measure


DONE, then Units selected

The unit will remember these settings (including Lock On/Off) even if turned off then back on.

8.2 TACHometer Operation

Measure



OR



Press and hold



Lock On

Recall Max



Max speed

Recall Min



Min speed

If unit Lock On



Resets Max/Min



Power OFF



OR Automatic after 90 seconds
if unit not Locked On

9.0 RATE MODE

Measurement of units in addition to Revs requires the attachment of the Remote Contact Assembly and tips/wheels. With this attachment, the unit can measure RATE inputs-revs, inches, feet, yards, centimeters and meters either per second, per minute or per hour, as well as miles per hour.

Note: External Remote Contact Assembly (RCA) must be inserted into input socket.

9.1 RATE Setup

1. Turn Power ON



EXTRN, then scrolling message, then last Units selected

- 1a. To toggle Lock On/Off



Press and hold



Lock On

2. Enter Setup



3. Enter selection of Mode



Last mode selected is displayed

4. Select RATE Mode



OR



Toggles between *RATE* and *TOTAL*; select *RATE*

5. Save and advance



6. Enter selection of Units



Rotational: *CRPS*, *CRPM* or *CRPH*

Linear: *IPS*, *IPM*, *IPH*, *FT/S*, *FT/M*, *FT/H*, *YPS*, *YPM*, *YPH*, *MPH*, *CM/S*, *CM/M*, *CM/H*, *M/SEC*, *M/MIN*, *M/H*

RATE Setup (continued):

7. Select Units  OR  Repeat until desired Units displayed

8. Save and advance   OR  Rotational Units Linear Units

Only for Linear Units:

- 8a. Enter selection of Wheel   Last wheel selected is displayed

- 8b. Select Wheel  OR  Toggles between 10CM and 12IN

- 8c. Save and Advance  

9. Enter selection of number of decimal places   NONE, 1, 2 or 3

10. Select decimal places  OR  Repeat until desired decimal places displayed

11. Save and advance  

RATE Setup (continued):

12. Exit Setup –
ready to
measure



*DONE,
USE CONTRAIP T
or [Wheel selected],
then Units selected*

The unit will remember these settings (including Lock On/Off) even if turned off then back on.

9.2 RATE Operation

Measure



Press and hold

OR



Lock On

Recall Max



Max Speed

Recall Min



Min Speed

If unit Locked On:



Resets Max/Min

Power Off



OR

Automatic after 90 seconds
if unit not Locked On

10.0 TOTALIZER MODE

Totalizer accumulates input on an ongoing basis. In the simplest form the unit acts as an optical counter, incrementing the display each time an input pulse is sensed. Using the Remote Contact Assembly with various tips and wheels, the unit can totalize in revs, inches, feet, yards, centimeters, and meters.

10.1 TOTALizer Setup

1. Turn Power ON



Different messages displayed for Internal or External operation



Internal optics or External optical sensor (i.e. ROS):



Last Units selected

External Remote Contact Assembly:



EXTRN, then scrolling message, then last Units selected

- 1a. To toggle Lock On/Off



Press and hold



Lock On

2. Enter Setup



3. Enter selection of Mode

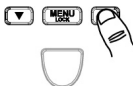


Last mode selected is displayed

4. Select TOTAL Mode



OR



Repeat until *TOTAL* displayed

TOTALizer Setup (continued):

5. Save and advance



6. Enter selection of Units



Different options displayed for Internal or External operation

Internal or External ROS:



COUNT
Only

External Remote Contact Assembly:



Rotational: REV
Linear: INCH, FEET,
YARDS, CM, METER

7. Select Units



OR



Repeat until
desired Units
displayed

8. Save and advance



COUNT or
REV

OR



Linear Units

Only for Linear Units:

- 8a. Enter selection of Wheel



Last Wheel
selected is
displayed

- 8b. Select Wheel



OR



Toggles
between
10CM
and 12IN

- 8c. Save and Advance



TOTALizer Setup (continued):

9. Enter selection of number of decimal places



none
DEPT

— NONE, 1, 2 or 3

10. Select decimal places



OR



Repeat until desired decimal places displayed

11. Save and advance



SETUP
MTIME

12. Exit Setup - ready to measure



XXXXX

Units = COUNT:
DONE,
then *COUNT*

Rotational/Linear Units:
DONE,
USE CONTACT TIP or
[wheel selected],
then Units selected

The unit will remember these settings (including Lock On/Off) even if turned off then back on.

10.2 TOTALizer Operation

Measure



OR




Press and hold


Lock On

Recall Max
or Min



Max or Min Speed (in
last selected Tach or
Rate mode units)

Recall Time
in seconds



Shows time in seconds
from when the Start/
Reset button is pressed
until the last input
signal measured

If unit is
Locked On:



Resets Max/Min, Total and
Measurement Time

Power Off



OR Automatic after 90 seconds if
unit not Locked On

Note: Pressing



OR



Once before 90
seconds will keep
measurements in
memory and the
display turned on
longer

11.0 TIMER MODE

Accumulates time in minutes, seconds, and tenths of a second. There are two modes of operation. The Manual mode operates like a stopwatch, the timing period being started and stopped by the user. The Auto mode can be stopped and started by the user or a piece of reflective tape on objects. The user can freeze the display-and view/record a LAP time-at any time without affecting the count.

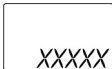
11.1 TIMER Setup

1. Turn Power ON   Last Units selected are displayed

- 1a. To toggle Lock On/Off   Locked On
 Press and hold 
2. Enter Setup Mode  

3. Enter selection of Mode   Last mode selected is displayed

4. Select TIMER Mode  OR  Repeat until **TIMER** displayed
 
5. Save and advance  

6. Enter selection of Timer function   *MAN or AUTO*

7. Select Timer function  OR  Toggles between Manual and Auto
 
8. Save and advance  


9. Exit Setup –
ready to
measure



DONE, then Units
selected

Unit will remember these settings (including lock on/off) even if turned off and back on.

11.2 TIMER Operation

Measure:

Manual



Each press toggles Start and
Stop



Auto



OR Start and Stop triggered by
external remote optical sensor
(ROS) or internal optics



Reset



With Timer stopped -
resets time to 00:00.0

TIMER Operation (continued):

Lap



With Timer running -
stops at elapsed time to date;
to continue, press again

Power Off



OR If Timer stopped -
automatic after 90 seconds
if unit not Locked On

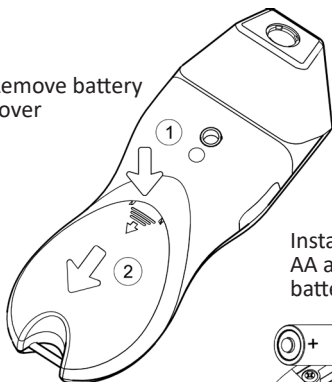
OR Automatic after 99:59.9

12.0 BATTERIES

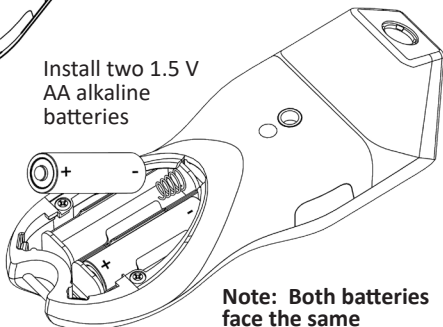
When displayed, replace batteries



Remove battery cover



Install two 1.5 V
AA alkaline
batteries



**Note: Both batteries
face the same
direction.**

12.1 Battery Disposal



The PLT200 uses (2) 1.5V AA Alkaline batteries. Make sure you remove and dispose of used batteries in accordance with environmental regulations in the country of use.



Alkaline

To remove the (2) batteries, see [12.0 BATTERIES](#) (above).

13.0 SPECIFICATIONS

Specifications*	PLT200 Pocket Laser Tachometer
Laser Specifications:	
Classification	Class 2 (per IEC 60825-1:2014) This product complies with IEC60825-1 Ed.3 and 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50 of June 2007
Max Laser Output	< 1 mW
Pulse Duration	Continuous
Laser Wavelength	650 nm
Beam Divergence	18 mrad
Beam Diameter	4 mm x 7 mm typical @ 2 meters
Laser Diode Life	8,000 operating hours MTBF (1 year warranty)
Noncontact Specifications:	
RPM Range	5-200,000
RPS Range	0.084-3,333.3
RPH Range	300-999,999
Resolution - Fixed	1 (10 above 99,999)
Resolution - Autoranging	0.001 to 1.0 (10 above 99,999)
Accuracy	±0.01% of reading or resolution limit
Operating Range	Up to 25 ft. [7.62 m] or up to 70 degrees off perpendicular to T-5 Reflective Tape target
Contact Specifications using optional Remote Contact Assembly:	
Range - Contact Tips	0.5-20,000 RPM
Range - Wheels	0.5-12,000 RPM

Specifications*	PLT200 Pocket Laser Tachometer
Contact Specifications (continued):	
Resolution - Fixed	1 (10 above 99,999)
Resolution - Autoranging	0.001 to 1.0 (10 above 99,999)
Accuracy - Revs	±0.05% of reading (RPM) or resolution limit (with no slippage)
Accuracy - Linear	±0.5% of reading or resolution limit (with no slippage)
Contact Measurement Ranges:	
Tachometer:	
RPM	0.5-20,000
RPS	0.0833-333.33
RPH	30-999,999
Rates:	Wheel Circumferences
Inches per Second	10 cm: 0.033 to 1,312.3 12 in.: 0.100 to 2,400.0
Inches per Minute	10 cm: 1.969 to 78,740 12 in.: 6.000 to 144,000
Inches per Hour	10 cm: 118.11 to 999,990 12 in.: 360.00 to 999,990
Feet per Second	10 cm: 0.003 to 109.36 12 in.: 0.009 to 200.00
Feet per Minute	10 cm: 0.164 to 6,561.7 12 in.: 0.500 to 12,000
Feet per Hour	10 cm: 9.843 to 393,700 12 in.: 30.000 to 720,000
Yards per Second	10 cm: 0.001 to 36.453 12 in.: 0.003 to 66.667

Specifications*	PLT200 Pocket Laser Tachometer
Rates (continued):	Wheel Circumferences
Yards per Minute	10 cm: 0.055 to 2,187.2 12 in.: 0.167 to 4,000.0
Yards per Hour	10 cm: 3.281 to 131,233 12 in.: 10.000 to 240,000
Miles per Hour	10 cm: 0.002 to 74.564 12 in.: 0.006 to 136.36
Centimeters per Second	10 cm: 0.084 to 3,333.3 12 in.: 0.21 to 3,048.0
Centimeters per Minute	10 cm: 5.000 to 200,000 12 in.: 15.240 to 365,760
Centimeters per Hour	10 cm: 300.00 to 999,990 12 in.: 914.40 to 999,990
Meters per Second	10 cm: 0.001 to 33.333 12 in.: 0.003 to 60.960
Meters per Minute	10 cm: 0.050 to 2,000.0 12 in.: 0.153 to 3,657.6
Meters per Hour	10 cm: 3.000 to 120,000 12 in.: 9.144 to 219,460
Totalizer:	
Counts	0 to 999,999
Scale Totals in Inches, Feet, Yards, Centimeters, or Meters	
Input	Internal or external optics or contact wheel
Timer Specifications:	
Minutes:Seconds, tenths to 99:59.9	
Accuracy	±0.2 second
Resolution	0.1 second

Specifications*	PLT200 Pocket Laser Tachometer
Display	Dual LCD: 5-digit upper/scrolling and 5-digit alphanumeric lower display
Batteries	Two (2) AA 1.5V  (DC) alkaline included (Note: Batteries are NOT rechargeable.)
Battery Life	30 hours continuous typical with batteries provided
External Input:	
Absolute Max	-0.3 V to 5 V  (DC) pulse
Minimum	Low below 1.2 V and high above 2 V (TTL compatible)
Edge	Triggers on Positive edge
Power Out	3.0 V nominal, approx. 2.8 V @ mA max
Pulse Output	0 V to 3.3 V  (DC) pulse Same shape as External Input signal or high when internal optics sees a reflection
Dimensions (HxWxD)	6.92 in. x 2.4 in. x 1.6 in. [17.58 cm x 6.10 cm x 4.06 cm]
Weight	Approx. 7 oz. (210 g)
This product is designed to be safe for indoor use under the following conditions (per IEC61010-1):	
Installation Category II	per IEC 664
Pollution Degree Level II	per IEC 664
Temperature	40 °F to 105 °F (5 °C to 40 °C)
Humidity	Max relative humidity of 80% for temperatures up to 88 °F (31 °C) decreasing linearly to 50% relative humidity at 100 °F (40 °C) Humidity non-condensing

*Specifications are subject to change without notice.

13.1 Compliance

CE Compliant

Please visit our website, www.monarchinstrument.com, to download our Declaration of Conformity for this product.

Environmental & EU Regulatory Compliance

When ordered individually, the PLT200 comes in a 200 lb. test - Kraft corrugated box with a die-cut foam insert and thermally printed identification label. Documentation and reflective tape are contained in a low-density polyethylene film bag.

The PLT200 Kit includes a standard latching carrying case with top and bottom die-cut foam inserts and identification label (case also available separately). The contact tips and linear speed wheel for use with the RCA included with the PLT200 Kit are contained in a reclosable polyethylene film bag with a thermally printed identification label.

The corrugated box with die-cut foam insert and the latching carrying case with top and bottom die-cut foam inserts are designed as durable, reusable protective assets intended for long-term storage, transport, and operational deployment of the tachometer throughout its service life. In accordance with the objectives of **EU Regulation (EU) 2025/40 on Packaging and Packaging Waste (PPWR)**, the box, foam inserts, and carrying case are intended to provide long-term protection during storage and transport and should be retained and reused whenever practical. Polyethylene containment bags may also be reused where appropriate. Reusing them helps reduce packaging waste and supports circular economy principles.

At the end of their functional lives, the tachometer, batteries, accessories, and storage/transport components should be separated and recycled in accordance with applicable local recycling and waste-management requirements.

Packaging Materials:

- **Individual Box:** Remove foam insert before recycling. The corrugated box may generally be recycled with attached identification labels in accordance with local requirements for paper and cardboard recycling.
- **Latching Kit Case:** Remove foam inserts before recycling. Recycle the case in accordance with local requirements for rigid plastic products at the end of its useful life. Attached identification labels may generally remain in place unless local requirements state otherwise.
- **Foam Inserts:** Separate from the box or case before recycling. Recycle in accordance with local requirements for polyethylene foam materials where facilities exist.
- **Polyethylene bags:** Recycle in accordance with local requirements for polyethylene film materials where collection and recycling facilities are available.

14.0 ACCESSORIES

[See webpage for the complete list of accessories.](#)

Model	Part No.	Description
Input/Output Cable, CA-4044-6	6280-037	6 ft. TTL cable with 1/8" mono phone plug to BNC connector
25 Ft. Extension Cable EC-25P	6180-028	25 ft. extension cable with male/female 1/8" phone plug connectors
CC-11 Latching Carry Case	6180-048	Plastic case with foam die-cut inserts for tachometer and accessories
T-5 Reflective Tape	6180-070	Reflective Tape – ½ inch [13 mm] wide, 5-foot roll (additional options available, visit Monarch Instrument's website)

Contact Accessories:

Model	Part No.	Description
Remote Control Assembly (RCA)	6180-074	Makes the PLT200 a contact tachometer! Includes two contact tips (concave and convex) and 10 cm contact wheel
12 in. Linear Wheel	6580-011	12-inch diameter contact wheel for use with RCA
Contact Tip Pack with 10 cm Linear Wheel	6580-010	Replacement rubber concave and convex tips and 10 cm contact wheel for use with RCA

15.0 SENSORS

[See webpage for the complete list of accessories.](#)

Model	Part No.	Description
ROS-P	6180-057	Remote Optical Sensor with 8 ft. [2.5 m] cable
ROS-P-25	6180-057-25	Remote Optical Sensor with 25 ft. [7.6 m] cable

The following sensors are compatible when used with the Self-Powered Sensor Interface Module (SPSR-IM, PN: 6150-021) and CA-4044-6 Input/Output Cable (PN: 6280-037):

ROLS-P	6180-029	Remote Optical Laser Sensor with 8 ft. [2.5 m] cable
ROLS-P-25	6180-029-25	Remote Optical Laser Sensor with 25 ft. [7.6 m] cable
RLS-P	6180-081	Rugged Laser Sensor with removable 10 ft. [3 m] cable
MT-190P	6180-036	Amplified Magnetic Sensor
IRS-P	6180-020	Infrared Sensor with 8 foot [2.5 m] cable for use without reflective target at 0.5 inch [12 mm] gap
GE200 HP	6180-014	Gas Engine Inductive Sensor with 15-foot [4 m] cable (requires magnetic amplifier PN: 4180-405)

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*Portable
Tachometers*



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