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INSTRUCTION MANUAL PCE-155



PCE-155 is a digital, battery-powered portable optical tachometer, which operates up to 25 feet* from a reflective target using a 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.

Multi-Function




PCE-155 is a 32 function Tachometer / Ratemeter, Totalizer / Counter and Timer (stopwatch), which is programmable in both English and Metric linear rates. Support is built-in for both our optional Remote Contact Assembly (RCA) and our Remote Sensors. PCE-155 has a TTL compatible Pulse Output to trigger devices like 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 and a 5 foot roll of reflective tape all in a latching carrying case.

* Performance subject to intensity of ambient light irradiation.

- **Operating Range up to 25 feet* (Class 3R visible laser)**
- **Accepts Remote Contact Assembly (optional)**
- **Accepts Remote Sensors (optional)**
- **TTL Pulse Output with 6 foot BNC Cable**
- **Auto Ranging/Fixed Decimal (user selectable)**
- **English and Metric Rates**
- **Tripod Mounting Bushing**
- **On-Target and Low Battery Indicators**
- **Rugged Rubberized Housing**
- **N.I.S.T. traceable Certificate of Calibration included**



Exclusive Features

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	Remote Sensors	
<p>PCE-155 is the only portable LASER tachometer available with remote sensors. Plug in any Monarch Remote Sensor for extended range and special applications.</p> <p>TTL Output standard. 6 foot cable with BNC connector, other cables available.</p>	 <p>Remote Optical Sensor (ROS-P) ideal for most applications up to 36" from reflective tape target. 8 foot cable.</p>	 <p>Infrared Sensor (IRS-P) used for high speed applications up to 0.5" gap. 8 foot cable.</p>



12 inch Contact Wheel is optional

Remote Contact Assembly

Unique handle grip allows user to safely make contact measurements while reading the display in a safe position. Works with all Monarch Pocket Tachometers capable of linear rates.

PCE-155 Specifications

Display:	5 Digits, 5 Alpha-numeric LCD
Range(s):	Optical: 5 to 200,000 RPM Contact RPM: 0.5 to 20,000 RPM
Accuracy:	Optical: $\pm 0.01\%$ of reading Contact: $\pm 0.05\%$ of reading (rpm)
Totalizer:	1-200,000
Resolution:	0.001 to 10 RPM (range dependent)
Operating Range:	2 inches to 25 feet*, $\pm 70^\circ$
Memory:	Maximum, Minimum and Last reading
Power:	(2) "AA" 1.5 VDC batteries (30 hours)
Environmental:	5° to 40°C / 80% RH up to 31°C
Dimensions / Weight :	175 x 61 x 41 mm / 210 g

RATES:	10cm Contact Wheel	12 inch circumference Contact Wheel
Inch/min	1.969 to 78,740 IPM	6.000 to 144,000 IPM
Feet/min	0.164 to 6,561.7 FT/M	0.500 to 12,000 FT/M
Yard/min	0.055 to 2,187.2 YPM	0.167 to 4,000.0 YPM
Cm/min	5.000 to 200,000 cm/M	15.240 to 365,760 cm/M
M/min	0.050 to 2,000.0 M/M	0.153 to 3,657.6 M/M
also reads engineering units in per second and per hour		

In this direction will find a vision of the measurement technique:
<http://www.industrial-needs.com/measuring-instruments.htm>

NOTE: "This instrument doesn't have ATEX protection, so it should not be used in potentially explosive atmospheres (powder, flammable gases)."