Hand-held laser tachometer / timer / totalizing function PLT200



- High-precision laser hand tachometer with a range of up to 8 m
- Speed in m/min, rpm
- 5-digit, 12 mm high, brilliant alphanumeric LCD display
- Storage of the min. and max. final value
- Extremely large measuring range, continuous period measurement
- Connection option for external sensor
- Can also be used as a contact tachometer via additional module
- Ergonomic, robust housing
- Pulse output for controlling stroboscopes or connection to display instruments
- Internal counter and timer function

https://www.wachendorff-prozesstechnik.de/en/PLT200

Description

The PLT 200 hand-held laser tachometer is a digital, battery-operated optical measuring device that can be used up to a distance of 8 m from the measuring point thanks to its laser. The ergonomic design allows a safe and simultaneous view of the measuring object and the display at the same time. The rubberized side surface ensures optimum one-handed operation.
The 32 internal functions of the laser tachometer allow it to be used as a tachometer, rev counter, totalizer, counter and timer. In addition, an external optical sensor or a contact sensor (measuring wheel, measuring tip) can be connected. The additional TTL pulse output allows the data to be forwarded to a measurement data acquisition system

Product details

Display	5-digit, 12 mm high brilliant alphanumeric LCD.
Keys	4 front buttons: Switch on the device and, when pressed, the RPM or speed is continuously recorded and displayed. The tachometer can be programmed and the min. and MAX values called up via 3 buttons.
Laser sensor	Laser class 2M, max. output power 1mW, wavelength 650 nm, service life of the laser diode approx. 8,000 hours MTBF.
Function types	- Contactless tachometer - Contact tachometer (PLT200KIT only) - Totalizer - Stopwatch/timer
Tachometer specifications	Tachometer: - Non-contact measuring principle: - 5 to 200,000 rpm - Resolution 0.001 to 1.0 - Accuracy +/-0.01% of the display Contact tachometer: - Measuring tips: 0.5 to 20,000 rpm - Measuring wheel: 0.5 to 12,000 rpm - Resolution 0.001 to 1.0 - Accuracy +/-0.05% of the display (rpm)
Totalizer	Counting range: 0 to 999,999 - Scaling in inches, feet, yards, centimeters or meters - Input via internal or external signal and contact
Stopwatch/timer	Display in minutes:seconds:tenths to 99:59.9 - Accuracy: +/-2/10 of a second - Resolution: 1/10 of a second
Operating range	5 cm to 8 m at +/-70°
Power supply	2 internal replaceable batteries "AA" 1.5 VDC with 30 hours service life.
Sensor connection	External sensor can be connected with -0.3 to + 5 VDC. Triggering on the positive edge, trigger level: Vmin: 1.2 V; Vmax: 2 VDC, TTL-compatible
Pulse output	Forwards the external pulse input 1:1 or is activated as soon as the laser sensor detects a reflection. Output signal: 0 to +3.3 VDC.
Housing	Impact and scratch-resistant plastic housing (ABS). W 61 mm x H 175 mm x D 41 mm
External sensors	Optical sensor OSENP: - Non-contact sensor with TTL output signal - Switching frequency up to 4.2 kHz - Works with reflective tape - Up to 90 cm measuring distance from the reflective tape - Operating temperature: -23° C...+121°C Infrared sensor ISENP: - Non-contact sensor with TTL output signal - Switching frequency up to 16.6 kHz - Works with reflective tape - 12 to 25 cm measuring distance from the reflective tape - Operating temperature: -23° C...+100°C
Manufacturer:	Wachendorff Prozesstechnik GmbH & Co. KG

Products Order no.

PLT200000	Laser hand tachometer PLT200

PLT200KIT	Hand-held laser tachometer KIT (incl. measuring tips, measuring wheel, handle, reflective tape, plastic case)

Accessories Order no.	
OSENP000	Optical sensor (round) with plug, diffuse, Diameter: M16, Switching distance sn: 0.9 m / ±45°, Scanning frequency: up to 4166 Hz, NPN, 2.4 m cable with 3.5 mm jack plug
ISENP000	Optical infrared sensor with plug (round), Diffuse, Diameter: M16, Switching distance sn:12 mm, Scanning frequency: up to 16666 Hz, TTL signal, 2.4 m cable with 3.5 mm jack plug
PLT200CTE	Spare measuring tips
PLT200CTM	Spare measuring wheel 0.1 m
PLT200RCA	Hand module for contact measurement
PLTCC110	Plastic case
PLT200T15	Reflective tape 1.5 m
PLT12WHE	Measuring wheel

WACHENDORFF
Prozesstechnik GmbH & Co. KG

Wachendorff Prozesstechnik GmbH & Co. KG
Industriestrasse 7 • 65366 Geisenheim
Germany

Phone: +49 (0) 67 22 / 99 65 - 20
E-Mail: wp@wachendorff.de
www.wachendorff-prozesstechnik.de