



Tursdale Technical Services Ltd
Unit N12B
Tursdale Business Park
Co. Durham
DH6 5PG
United Kingdom
Phone: +44 (0) 191 377 3398
Fax: +44 (0) 191 377 3357
info@tursdaletechnicalservices.co.uk
<http://www.industrial-needs.com/>

Manual PCE-T236 tachometer



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1 RPM (over 1,000 RPM)

SURFACE SPEED:

0.01m/min. (over 10 m/min.)

0.1 m/min. (over 100 m/min.)

0.1 ft/min. (0.1 ~ 999.9 ft/min.)

1 ft/min. (over 1,000 ft/min.)

Accuracy : TACH.: $\pm(0.05\%+1 \text{ RPM})$

SURFACE SPEED: $\pm(0.05\%+0.03\text{m/min.})$

Sampling Time:

PHOTO TACH. (1 sec. over 60 RPM).

CONTACT TACH. (1 sec. over 15 RPM)

Photo Tach. Detecting distance :

50 to 150mm / 2 to 6 inch. (typical max.
300mm/12 inch).

Test range select: Automation

Battery : 4x1.5AA(UM-3)battery

Operation temp. : 0-50°C(32-122°F)

Size : 215x65x38mm (8.5 x2.6x1.5 inch)

Weight: 300g/0.651b (including batteries)

Accessories :

- Carrying case1pc.
- Reflective tape marks (350mm).....2pc.
- RPM adapter (CONE)..... 1pc.
- RPM adapter (FUNNEL).....1pc.
- Surface speed test wheel.....1pc.
- Operation manual.....1pc.

3.FRONT PANEL DESCRIPTIONS

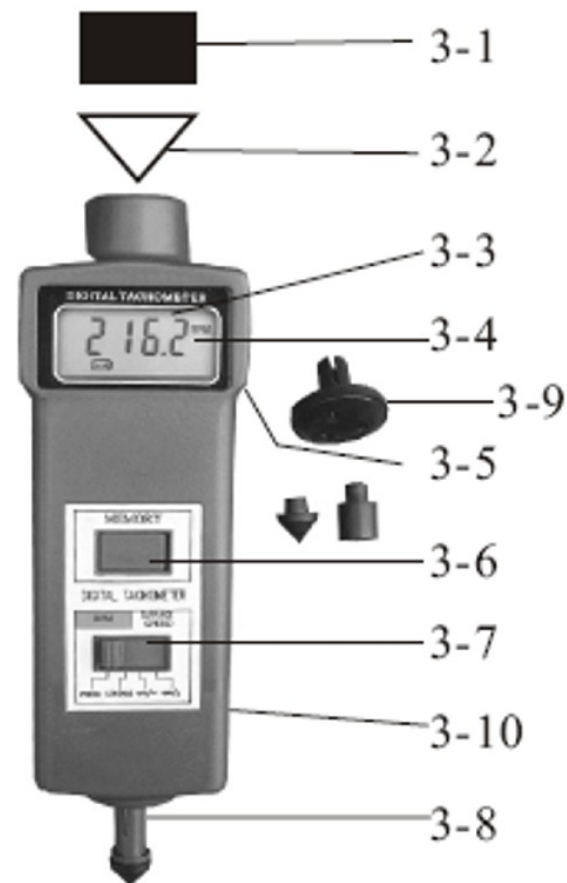


Fig. 1

- 3-1 Reflective mark
- 3-2 Signal light beam
- 3-3 Monitor indicator
- 3-4 Display
- 3-5 Measure button
- 3-6 Memory call button
- 3-7 Function switch

.3.

3-8 Rotating ring

3-9 Circumferential speed ring

3-10 Battery Compartment/Cover

4. PHOTO TACH. MEASURING PROCEDURE

4-1. Slide the FUNCTION SWITCH to RPM
“PHOTO” position.

4-2. Apply a reflective mark to the object being measured. Depress the MEASURE BUTTON and align the visible light beam with the applied target. Verify that the MONITOR INDICATOR lights when the target passes thru the light beam. Release the MEASURE BUTTON when the reading stabilizes (about 2 seconds). If the test RPM less than 50RPM, suggest to attach more REFLECTIVE MARKS averagely. Then divided the reading shown by the number of REFLECTIVE MARKS is the real RPM to get high resolution & stability on display reading.

4-3 REFLECTIVE MARK

Cut and peel adhesive tape provided into approx. 12mm (0.5'') squares and apply one square to each rotation shaft.

- a. The non-reflective area must always be greater than the reflective area.
- b. If the shaft is normally reflective, it must be

covered with black tape or black paint before attaching reflective tape.

5. CONTACT TACH. MEASURING PROCEDURE

5-1 Slide the FUNCTION SWITCH to RPM “CONTACT” position.

5-2 Depress the MEASURE BUTTON and lightly pressing the rotating ring (3-8) against the center hole on the rotating hole. Release the MEASURE BUTTON when the reading stabilizes (approx. 2 seconds).

6. SURFACE SPEED MEASUREMENT

6-1 Slide the FUNCTION SWITCH to “m/min (SURFACE SPEED)” or “ft/min. (SURFACE SPEED)” position.

6-2 Depress the MEASURE BUTTON and simply attaching the surface speed test wheel to the detector. Release the MEASURE BUTTON when the reading stabilizes.

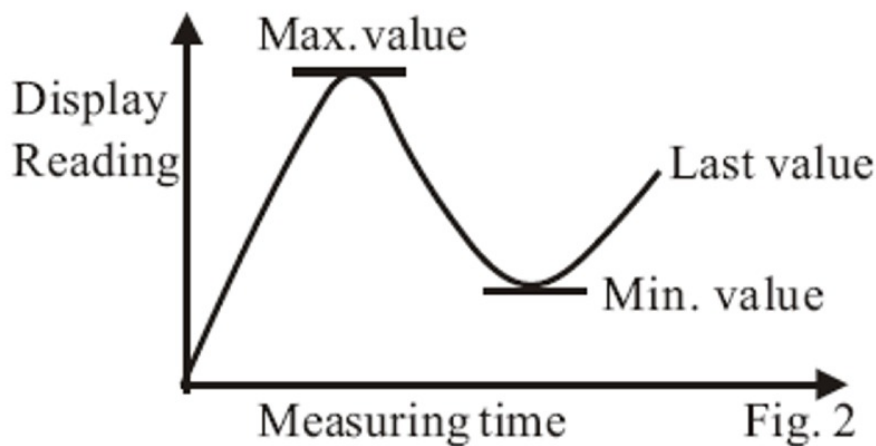
7. MEMORY CALL BUTTON OPERATION

7-1 A readout (the last Value, max. Value, min. Value) obtained immediately before releasing the MEASURE BUTTON is automatically memorized. For example, please ref. fig. 2.

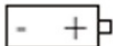
7-2 That memorized values can be displayed on the indicator when

A. First push-To display the last value: “LA” and

- “the last value” will be displayed by turn.
- B. Second push-To display the maximum value:
“UP” and “the max. value” will be displayed by turn.
- C. Third push-To display the minimum value:
“dn” and “the min. value” will be displayed by turn.



8. BATTERY REPLACEMENT

- 8-1 When it is necessary to replace the battery (battery voltage less than approx. 5V), symbol “” will appear on the display.
- 8-2 To loose the screw of the battery cover (Fig.1, 3-10) away from the instrument and remove the batteries.
- 8-3 Install the batteries correctly into the case. Permanent damage to the circuit from incorrect installation.
- 8-4 If the instrument is not to be used for any extended period, remove batteries.

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)."