

INSTRUCTIONS

DIGITAL TACHOMETER

TC - 10

Code IM 19 205



- It is used the microcomputer (**CPU**) technique and junction laser technique for one instrument combine PHOTO TACH. (**RPM**) & CONTACT TACH (**RPM,m/min**).
- Wide measuring range and High resolution.
- Low battery voltage indication.
- Contact part and photo part can be switched value at any time.
- New surface speed sensor with flute vails to measure speed and length of wire cable and rope conveniently.
- The instrument is delicate and rugged. It uses the durablelong-lasting components and a strong ,light weight ABS plastic housing. The housing has been carefully shaped to fit comfortably in either hand.

Display: 5 digital, 18mm (0.7" LCD)

Accuracy: \pm (0.05%+1digital)

Sampling Time: 0.8 sec (over 60 RPM)

Range Select: Auto-Range

Time Base: Quartz crystal

Detecting Distance: 50 mm - 500 mm

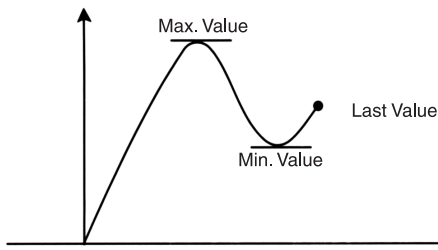
Dimension: 210×74×37 mm

Power: 4×1.5V AA Size Battery

Power Consumption: approx 50mA

A readout (the max value, min value , last value) obtained immediately before turning off the MEASURING BUTTON is automatically memorized .For example, please ret.

Following fig.1. That Memorized value can be displayed on the indicator by turn once depressing the memory button. The Symbol UP represents the Max. Value and DN the Min. Value, LA the Last Value.



When it is necessary to replace the battery (battery voltage less than approx. 4.5V), will appear on the display.

Slide the battery cover away from the instrument and remove the battery.

Install the batteries into the case. Permanent damage to the circuit may result from incorrect installation.

REMINDS

- **Reflective mark:** cut and peel adhesive tape provided into approx. 12mm squares and apply one square to each rotation shaft. The non-reflective area must always be greater than the reflective area. If the shaft is normally reflective, it must be covered with black tape or black paint before attaching reflective tape. Shaft surface must be clean and smooth before applying reflective tape.

- Very low RPM measurement: as it is easy to get high resolution. If measuring the very low RPM values, suggest user to attach more “REFLECTIVE MARKS” averagely. Then divide the reading shown by the number of “REFLECTIVE MARKS” to get the real RPM.
- Contact tachometer parts include large taper; small taper and pillar. Large taper and pillar rubber part is suitable to low speed and but the small high speed.
- If the instrument is not to be used for any extended period, remove batteries. periodo de tiempo, quite las pilas

Measuring Range :

PHOTO TACH

2.5 to 99999RPM

CONTACT TACH

0.5 to 19999RPM

SURFACE SPEED(m/min)

0.05 to 1999.9m/min

Resolution:

PHOTO TACH

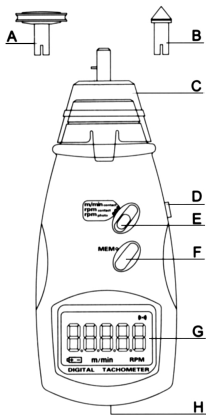
0.1RPM (2.5 to 999.9 RPM)

1RPM (over 1000 RPM)

SURFACE SPEED

0.01m/min (0.05 to 99.99m/min)

0.1m/min (over 100m/min)



- A. Surface speed wheel
- B. Contact TACH. test device
- C. Contact measuring device
- D. Measure button
- E. Function switch
- F. Memory call button
- G. Display window
- H. Battery cover

1. PHOTO MEASUREMENT

- a.** Apply a reflective mark to the object being measured. Slide the function switch to “rpm photo” position.
- b.** Depress the MEASURE BUTTON and align the visible light beam with the applied target. Verify that the MONITOR INDICATOR lights when the target aligns with the beam.

2. CONTACT TACH MEASUREMENT

- a.** Slide the FUNCTION SWITCH to “ rpm contact ” position. Install the proper RPM ADAPTER on the SHAFT.
- b.** Depress the MEASURING BUTTON and lightly pressing the RPM ADAPTER against the center hole of rotating shaft. Be certain to keep alignment straight. Release the MEASURING BUTTON when the display reading stabilizes .

3. SURFACE SPEED MEASUREMENT

- a. Slide the FUNCTION SWITCH to “ m/min contact ” position. Install the SURFACE SPEED WHEEL on the SHAFT instead of the RPM ADAPTER.
- b. Depress the MEASURING BUTTON and simply attaching the SURFACE SPEED WHEEL to the detector. Release the MEASURING BUTTON when the display reading stabilizes.

Note

Because of the difference between the girth of outer surface and inner flute of line speed sensor. For contact line speed or length measurement. The displaying result is correct when outer surface of the sensor contacts with the measured object contact and but when inner flute of the sensor and the measured object , that the reading multiply 0.9 is the real result (eg.: measure wire ,cable and rope etc.)

Carrying case

Reflecting tape

Operation manual

Dampproof accessories

Bolt bag

Contact speed measurement fitting

Contact rotational speed measurement fitting (3)