

# Pocket PHOTO/CONTACT TACHOMETER

Model : DT-2230

ISO-9001, CE, IEC1010



## FEATURES

- \* Mini pocket size, easy carryout.
- \* Photo tachometer :  
5 to 100,000 RPM  
Contact tachometer :  
0.5 to 19,999 RPM.  
Surface speed :  
m/min, ft/min.
- \* Laser beam for Photo tachometer,  
long measuring distance.
- \* LCD display, RS-232 interface.
- \* Patented.



**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

Pocket type, RS232 computer interface

# PHOTO/CONTACT TACHOMETER

Model : DT-2230

## FEATURES

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| * Compact and pocket tachometer.   |
| * The best Tachometer in the world. 2 in 1, one instrument combine Photo tachometer and Contact Tachometer.  |
| * Photo tachometer uses Laser light detecting source, long measuring range up to 1.5 meters, it is useful in the RPM measurement application where the machine would be a risk to the operator or close access is difficult or not possible. |
| * Wide measuring range from 0.5 to 100,000 RPM, 0.1 RPM resolution for the measured value < 1000 RPM.  |
| * Microprocessor based circuit, crystal time base, high precision with 0.1% accuracy.  |
| * High visible LCD display gives RPM reading exactly with no guessing or errors & saves battery energy.  |
| * Memory with recall function, the last value, max., value, min. value will be stored into the memory automatically.   |
| * The use of durable, long lasting components, including a strong, light weight ABS plastic housing, assures almost maintenance free performance for many years.   |
| * RS232 PC serial interface.   |
| * Patent patented.   |

## SPECIFICATIONS

|                     |   |
|---------------------|---|
| Measurement & Range | <i>Photo Tachometer :</i><br>5 to 99,999 RPM.   |
|                     | <i>Contact Tachometer :</i><br>0.5 to 19,999 RPM.   |
|                     | <i>Surface Speed :</i><br>m/min. - 0.05 to 1,999.9 m/min.<br>ft/min. - 0.2 to 6,560 ft/min. |
| Resolution          | <i>RPM :</i><br>0.1 RPM ( < 1,000 RPM ).<br>1 RPM ( ≥ 1,000 RPM ).                          |
|                     | <i>m/min.:</i><br>0.01 m/min. ( < 100 m/min. ).<br>0.1 m/min. ( ≥ 100 m/min. ).             |
|                     | <i>ft/min.:</i><br>0.1 ft/min. ( < 1,000 ft/mn. ).<br>1 ft/min. ( ≥ 1,000 ft/mn. ).         |

|                                     |   |
|-------------------------------------|---|
| Display                             | LCD, size 32 mm x 28 mm.<br>5 digits with display unit.   |
| Accuracy                            | ± ( 0.1% + 1 digit ). @ reading   |
| Photo Tachometer detecting distance | 5 to 150 cm typically.<br>* Spec. of detecting distance are that under the size of reflecting tape is 10 mm square & the measuring RPM value is 1,800 RPM. The max. & min. detecting distance may change under different environment, different reflecting tape or the measuring RPM beyond 1800 RPM. |
| Time base Circuit                   | Quartz crystal.<br>Exclusive one-chip of microcomputer LSI circuit.   |
| Photo Tach. Laser light source      | * Less than 1 mW.<br>* Class 2 laser diode.<br>Red Wave length is 645 nm approximately.   |
| Operating Temperature               | 0 to 50 °C ( 32 to 122 °F ).  |
| Operating Humidity                  | Less than 80% R.H.  |
| Memory                              | Memorize Last/Max./Min. value.  |
| Data Output                         | RS232 PC serial interface.  |
| Battery                             | 4 x 1.5V AAA ( UM4 ) batteries.   |
| Power Consumption                   | <i>Photo tachometer :</i><br>Approx. DC 29 mA.<br><i>Contact tachometer :</i><br>Approx. DC 5 mA.   |
| Size                                | 156x50x33 mm. ( 6.1x2.0x1.3 inch ).   |
| Weight                              | 187 g ( 0.41 LB ).  |
| Accessories Included                | Reflecting tape marks ( 600 mm )..... 1 PC.<br>Operation manual..... 1 PC.<br>Spare RPM cone rubber..... 1 PC.<br>Spare RPM funnel rubber..... 1 PC.  |
| Optional Accessory                  | * Carrying case, CA-52A<br>* RS232 cable, UPCB-02.<br>* Data Acquisition software, SW-U801-WIN.   |

Temp | Humidity | Pressure | Differential Pressure | Vacuum | Gases | Particle | Air Flow  
Moisture | Dissolved Oxygen | Radiation | Air Quality | Light / Lux | Distance | Vibration

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