

# 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

* 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.

Display	LCD, size 32 mm x 28 mm. 5 digits with display unit.
Accuracy	$\pm ( 0.1\% + 1 \text{ digit } )$ . @ reading
Photo Tachometer detecting distance	5 to 150 cm typically. * 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	Quartz crystal.
Circuit	Exclusive one-chip of microcomputer LSI circuit.
Photo Tach. Laser light source	* Less than 1 mW. * Class 2 laser diode. 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> Approx. DC 29 mA. <i>Contact tachometer :</i> 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. Operation manual.....1 PC. Spare RPM cone rubber.....1 PC. Spare RPM funnel rubber.....1 PC.
Optional Accessory	* Carrying case, CA-52A * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN.

## SPECIFICATIONS

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

\* Appearance and specifications listed in this brochure are subject to change without notice.

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