

Pocket PHOTO/CONTACT TACHOMETER

Model : DT-2230

ISO-9001, CE, IEC1010



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

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| 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. in/min. - 2.0 to 78,740 in/min. | |
| Resolution | <i>RPM</i> | 0.1 RPM (< 1,000 RPM). 1 RPM (≥ 1,000 RPM). |
| | <i>m/min.</i> | 0.01 m/min. (< 100 m/min.). 0.1 m/min. (≥ 100 m/min.). |
| | <i>ft/min.</i> | 0.1 ft/min. (< 1,000 ft/min.). 1 ft/min. (≥ 1,000 ft/min.). |
| | <i>in/min.</i> | 0.1 in/min. (< 1,000 in/min.). 1 in/min. (≥ 1,000 in/min.). |
| Display | LCD, size 32 mm x 28 mm. 5 digits with display unit. | |

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|-------------------------------------|---|
| Accuracy | ± (0.1% + 1 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. |
| Memory | Memorize Last/Max./Min. value with recall. |
| 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. |
| Data Output | RS232 PC serial interface. |
| Battery | 4 x 1.5V AAA (UM4) batteries. |
| Power Consumption | <i>Photo tachometer :</i> Approx. DC 20 mA. <i>Contact tachometer :</i> Approx. DC 9.5 mA. |
| Size | 165 x 50 x 33 mm. (6.5 x 2.0 x 1.3 inch). |
| Weight | 182 g (0.4 LB). * Weight is cluded the batteries. |
| 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 * USB cable, USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN. |

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