

+ Type k Temp., Pt 1000 ohm Temp.

TACHOMETER/ STROBOSCOPE

Model : DT-2336

ISO-9001, CE, IEC1010



Lutron



LUTRON ELECTRONIC

The Art of Measurement

+ Type k Temp., Pt 1000 ohm Temp.

TACHOMETER / STROBOSCOPE

Model : DT-2336

FEATURES

| |
|---|
| * Multi-functions, one instrument combine Photo Tachometer (RPM) & Contact Tachometer (RPM, m/min., ft/min.,in/min.) Stroboscope ,Type K Thermometer, Pt 1000 Temp. |
| * High intensity white light beam for photo tachometer, safety and save the power energy. |
| * Wide measuring range from 0.5 to 99,999 RPM. |
| * 0.5 RPM resolution for the measured value < 1000 RPM. |
| * High precision with 0.05% accuracy. |
| * The last value, max., value, min. value will be stored into the memory automatically & can be obtained by pressing REC Button. |
| * Large LCD display. |
| * High visible LCD display gives RPM reading exactly with no guessing or errors & saves battery energy. |
| * This tachometer used the exclusive one chip MICRO-COMPUTER LSI circuit & crystal time base, offer the high accurate measurement & fast sampling time. |
| * The use of durable, long lasting components, including a strong, light weight ABS plastic housing, assures almost maintenance free performance for many years. |
| * The housing cabinet has been carefully shaped to fit comfortable in either hand. |

General Specifications

| | |
|-----------------------|--|
| Display | 43 mm x 33 mm LCD, 5 digits. 5 digits with display unit. |
| Measurement | 1.Photo Tachometer : (RPM) 2.Contact Tachometer : (RPM, m/min., ft/min.,in/min.) 3. Stroboscope, 4. Type K Thermometer, 5. Pt 1000 Thermometer. |
| Circuit | Exclusive one-chip of microcomputer LSI circuit. |
| Memory | Last/Max./Min. value. |
| Operating Humidity | Max. 80% RH. |
| Operating Temperature | 0 to 50 °C (32 to 122 °F) |
| Over Input Display | Indication of " - - - " |
| Power Supply | UM3-AA x 4 (DC 6 V battery),DC Adapter (adapter is optional) |
| Power Consumption | Approx. DC 42 mA |
| Weight | 230g/0.50LB (Meter only) |
| Dimension | HWD 207 x 67 x 39 mm (8.15 x 2.63 x 1.53 inch). |
| Time base | Quartz crystal. |
| Accessories Included | Hard carrying case 1 PC. Reflecting tape marks (600 mm)..... 1 PC. RPM adapter (CONE)..... 1 PC. RPM adapter (FUNNEL)..... 1 PC. Surface speed test wheel..... 1 PC. Operation manual..... 1 PC. |
| Optional Accessories | AC to DC adapter..... 1 PC. USB cable (USB-01)..... 1 PC. RS232 cable (UPCB-02)..... 1 PC. Data acquisition software (SW-U801-WIN)..... 1 PC. Excel data acquisition software(SW-E802)..... 1 PC. Type K Temp. probe : TP-01 , TP-02A , TP-03 , TP-04 TP-05 TP-1000 (Pt-1000 ohm Temp. probe.) |

Electrical Specification (23 ±5°C)

Photo Tachometer

| | |
|-------------------------------------|---|
| Measurement & Range | Photo Tachometer : 5 to 99,999 RPM. |
| Resolution | RPM: 0.5 RPM (< 1,000 RPM). 1 RPM (≥ 1,000 RPM). |
| Accuracy | ±(0.05% + 1 digit). |
| Photo Tachometer detecting distance | 50 to 150 mm/2 to 6 inch. (typical max. 300 mm/12 inch, depending upon ambient light). * 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. |

Contact Tachometer

| | | |
|---------------------|--|--|
| Measurement & Range | Contact Tachometer : 0.5 to 19,999 RPM. | Surface speed (m/min.): 0.05~1,999.9 m/min. |
| Resolution | CONTACT (RPM): 0.5 RPM (< 1000 RPM). 1 RPM (≥ 1,000 RPM). Surface speed (m/min.): 0.05 m/min. (< 100 m/min.). 0.1 m/min. (≥ 100 m/min.). Surface speed (ft / min.): 0.1 ft / min. (< 1,000 ft/min.). 1 ft / min. (≥ 1,000 ft/min.). Surface speed (in./min.) : 0.1 in./ min. (< 1000 in./min.). 1 in. /min. (≥ 1,000 in./min.). | |
| Accuracy | ±(0.05% + 1 digit). | |

NOTE: When using test wheel, accuracy can be affected as much as 0.5% of reading.

Stroboscope Tachometer

| | | |
|--------------------|--|---|
| Flash adjust range | 100 to 99,990 RPM/FPM. * RPM : round per minute. * FPM : flash per minute. | |
| Resolution | 0.1 RPM : < 1,000 RPM. 1 RPM : ≥ 1,000-30,000 RPM | 5 RPM : ≥ 30,000-50,000 RPM 10 RPM : ≥ 50,000-99,990 RPM |
| Function buttons | Digital rotate knob, x 2 button, ÷ 2 button, + button, - button, | |
| Accuracy | ±(0.1 % + 2d) | |

Type K thermometer

| Sensor Type | Resolution | Range | Accuracy |
|-------------|------------|--|--|
| Type K | 0.1 °C | -50.0 to 1300.0 °C -50.1 to -100.0 °C | ± (0.4 % + 0.5 °C) ± (0.4 % + 1 °C) |
| | 0.1 °F | -58.0 to 2372.0 °F -58.1 to -148.0 °F | ± (0.4 % + 1 °F) ± (0.4 % + 1.8 °F) |

pt 1000 Ω thermometer

| Unit | Range | Resolution | Accuracy |
|------|--------------|------------|----------|
| °C | -10 to 70 °C | 0.1 °C | ± 1.2 °C |
| °F | 14 to 158 °F | 0.1 °F | ± 2.2 °F |

* Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.