

+ Type k Temp., Pt 1000 ohm Temp., IR Temp.

TACHOMETER/ STROBOSCOPER

Model : DT-2436

ISO-9001, CE, IEC1010



Photo Tach

Contact Tach

Surface speed

Stroboscope

Type k thermometer

Pt 1000 ohm Temp.

IR Temp .

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LUTRON ELECTRONIC

The Art of Measurement

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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., IR 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, rev/s) 2.Contact Tachometer : (RPM, m/min., ft/min.,in/min.) 3. Stroboscope, 4. Type K Thermometer, 5. Pt 1000 Thermometer. 6. IR Thermometer.
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	240g/0.53 LB (Meter only)
Dimension	HWD 207 x 67 x 45 mm (8.15 x 2.63 x 1.77 inch).
Time base	Quartz crystal.
Circuit	Exclusive one-chip of microcomputer LSI circuit.
Memory	Last/Max./Min. value.
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.
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.	5 RPM : ≥ 30,000-50,000 RPM
	1 RPM : ≥ 1,000-30,000 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	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2372.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)

p t 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

IR thermometer

Emissivity	0.95 fixed value
Spectral response	6 to 14 μm (wavelength)
Field of View D/S	D/S =Approx. 3 : 1 ratio (D = distance, S =spot)

Unit	Range	Resolution	Accuracy
°C	-30 to 305 °C	0.5 °C	± 3 % or ± 3 °C
°F	-22 to 581 °F	0.5 °F	± 3 % or ± 5.4 °F

Spec. is tested under the 20 cm dia. Black body, the measuring distance between the sensing head and the target is 30 cm.

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