LED array, + Photo Tachometer, Battery power

STROBOSCOPE

Model : DT-2299

ISO-9001, CE, IEC1010

Features :

* Stroboscope use high intensity LED array.
* LCD display with back light.
* Stroboscope range : 10 to 99,999 RPM.
* External trigger for stroboscope.
* Photo tach. range : 10 to 99,999 RPM.
* Photo tachometer use the laser light beam.
* Power supply : 1.5 V (UM-1) x 4 PCs
* DCV power supply via external AC/DC adapter is available, AC/DC adapter is optional.

Lutron

LUTRON ELECTRONIC

The Art of Measurement

+ Laser Photo Tachometer, Contact Tachometer

COMBINATION STROBOSCOPE

Model : DT-2299 *Battery power*

1. FEATURES

* Combination Stroboscope with 3 functions : Digital Stroboscope, Laser Photo Tachometer, Contact Tachometer (optional probe), 3 in 1 , intelligent function.
* Battery power Stroboscope, use high intensity LED array, long life.
* Stroboscope, wide measuring range up to 99,999 RPM.
* The Digital Stroboscope is used the microprocessor circuit design, high accuracy, digital readout, light duty, that is ideal for inspecting and measuring the speed of moving gears, fans, centrifuges, pumps, motors and other equipment used in general industrial maintenance, production, quality control, laboratories and as well as for schools and colleges for demonstrating strobe action.
* Back light high visible LCD display gives exact reading with no guessing or error and saves battery energy.
* High precision both for Stroboscope and Tachometer measurement.
* Use an exclusive one chip MICRO-PROCESSOR LSI-circuit and crystal time base to offer high accuracy measurement & fast measuring time.
* Stroboscope build in external trigger input.
* Long distance Laser Photo Tachometer build in.
* Optional Contact Tachometer probe is available.
* Compact and heavy duty housing case.

2. SPECIFICATIONS

2-1 General Specifications

Display	5 digits (0 to 99999) LCD display.
Circuit	Exclusive one-chip design microprocessor LSI circuit.
Measurement	*Stroboscope* Unit : FPM (rotation per minute). build in external trigger input.
	Laser Photo Tachometer Unit : RPM (rotation per minute).
	Contact Tachometer Unit : RPM (rotation per minute). Surface speed (ft/min., m/min) * It should cooperate with optional contact probe (TA-35).
Sampling Time	Approx. 1 second.
Calibration	Crystal time base and microprocessor circuit, no external calibration process required.
Operating Temperature	0 to 50 ℃ (32 to 122℉)
Humidity	Less than 80% R.H.
Power Supply	DC 1.5 V, UM-1 (D type) battery x 4 PCs ** DC 9V adapter input is built, AC/DC adapter is opional, not in included.*
Power Consumption	*Stroboscope (3600 FPM) :* DC 160 mA.
	Laser photo Tachometer (3600 RPM) : DC 130 mA.
Weight Dimensions	800 g (1.76 LB). 21 cmx12 cmx12 cm (8.3"x4.8"x4.8").
Accessories Included	Operation manual.....1 PC. Reflective tape.....1 PC.
Optional Accessories	Contact Tachometer probe (TA-35). ACV 110V, 220/230V to DC 9V adapter.

2-2 Electrical Specifications of Stroboscope

Stroboscope Specification

Stroboscopic Flash Rate	100 to 99,999 flashes per minute (FPM). Low range : 100 to 1,000 RPM/FPM. High range : 1000 to 99,999 RPM/FPM.
Accuracy	± (0.05% + 1 digit).
Resolution	0.1 FPM/RPM (less than 1,000 FPM/RPM) 1 FPM/RPM (> 1,000 FPM/RPM).
External Trigger Input	Input signal : 5V to 30 V rms, 100 to 99,999 RPM/FPM.
Light Source	Long life high intensity LED array.

2-3 Electrical Specifications of Laser Photo Tachometer

Range	10 to 99,999 RPM	
Photo Tachometer detecting distance	50 - 1,500 mm typically. * *Spec. of detecting distance are that under the size of reflecting tape is 10 mm square & the measuring RPM value is 1,800 PPM. The max. & min. detecting distance may change under different environment, different reflecting tape or the measuring RPM beyond 1800 PRM.*	
Accuracy	± (0.05% + 1 digit).	
Sampling Time	1 sec. (60 RPM).	
Resolution	0.1 RPM	< 1,000 RPM
	1 RPM	≧1,000 RPM
Time base	Quartz crystal	
Laser light source	* Less than 1 mW. * Class 2 laser diode. Red. Wave length is 645 nm approximately.	

2-4 Electrical Specifications of Contact Tachometer (Optional Probe, TA-35)

Range	*Contact Tachometer :* 0.5 to 19,999 RPM *Surface Speed (m/min.) :* 0.05 to 1,999.9 m/min. *Surface Speed (ft/min.) :* 0.2 to 6,560 ft/min.	
Accuracy	± (0.05% + 1 digit).	
Sampling Time	1 sec. (6 RPM).	
Resolution	0.1 RPM	< 1,000 RPM
	1 RPM	≧1,000 RPM
	0.01 m/min.	≧ 100 m/min.
	0.1 m/min.	> 100 m/min.
	0.1 ft/min.	< 1000 ft/min.
	1 ft/min.	≧ 1,000 ft/min.
Accessories Included	RPM adapter (Cone type)..... 1 PC. RPM adapter (Funnel type)..... 1 PC. Surface speed test wheel..... 1 PC.	