

Digital synthesis, High intensity light, 30,000 RPM

STROBOSCOPE

Model : DT-2249A

ISO-9001, CE, IEC1010



Lutron

LUTRON ELECTRONIC

The Art of Measurement

Digital synthesis, high reliability, Xenon tube

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FEATURES

* 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.
* Digital synthesis circuit, high stability and high adjusting resolution, easy operation.
* Crystal time base to offer high accuracy measurement & fast measuring time.
* Xenon flash tube, high intensity.
* Wide range : 60 to 30,000 RPM.
* Red LED display, easy to read.
* Adjustment resolution : 0.1 RPM (< 1,000 RPM), 1 RPM ($\geq$ 1,000 RPM).
* High intensity light.
* Setting buttons : Digital adjust button, x 2 button, $\div$ 2 button, + button, - button, easy operating.
* Xenon flash tube with plug and socket, easy to make the tube replacement.
* Compact and heavy duty housing case.

GENERAL SPECIFICATION

Display	14 mm(0.56") LED, 5 digits.
Flash adjust range	60 to 30,000 RPM/FPM. * RPM : round per minute. * FPM : flash per minute.
Resolution	0.1 RPM : < 1,000 RPM.
	1 RPM : $\geq$ 1,000 RPM
Function buttons	Digital rotate knob, x 2 button, $\div$ 2 button, + button, - button,
Accuracy	$\pm$ (0.05 % + 1d) * Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.
Signal Stability	The signal adjusting circuit is used the digital synthesis circuit, the output signal will existing high stability and not change.
Power Consumption	Less than 30 Watt.

Power Supply	110 Vac $\pm$ 10%, 50/60 Hz. or 220 Vac $\pm$ 10%, 50/60 Hz. or 230 Vac $\pm$ 10%, 50/60 Hz.
	 * A " Voltage rating label " is affixed under the bottom case to show the voltage rating of power supply. When use the stroboscope, make sure to identify the power supply voltage exactly.
Circuit	* Microcomputer LSI circuit & crystal control time base. * Digital synthesis circuit for the signal adjusting.
Operating Temp.	0 to 50 °C (32 to 122 °F).
Operating Humidity	Less than 80% R.H.
Dimension	21 x 12 x 12 cm (8.3 x 4.8 x 4.8 inch).
Weight	1Kg/2.2 LB.
Housing	Compact and impact plastic injection case with plastic mirror type reflector.
Calibration	Crystal time base and microprocessor circuit, don't necessary take any external calibration process.
Accessories Included	Operation manual.....1 PC. Power cable.....1 PC.

FLASH TUBE SPECIFICATION

Flash tube	Xenon lamp.
Flash Duration	Approximately 60 to 1,000 microseconds.
Flash color Temp.	Xenon white 6,500 K degree.
Flash energy	4 Watts-seconds (joules).
Beam Angle	80 degrees.
Flash tube replacement	It is required to change the flash tube when the instrument start to flash irregularly at speeds > 3600 RPM/FPM.
Operating duty Cycle	For prolong life and safety, please adhere to the following operation duty cycle: < 2000 RPM - 2 hours 2001 to 3600 RPM - one hour 3601 to 8000 RPM - 30 minutes > 8000 RPM - 10 minutes. * 10 min. cooling off period between cycles.

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

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