

Digital Stroboscope

Part No. 01DT2239A

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DESCRIPTION

The model DT -2239A is a microprocessor circuit design, high accuracy, digital readout, light duty STROBOSCOPE/TACHOMETER 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.



SPECIFICATIONS

Display:	0.3" LED, 4 digits.	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.
Stroboscopic Flash Rate:	100 to 10,000 flashes per minute (FPM)	Power Consumption:	Less than 30 Watt.
Accuracy:	100 to 5,000 FPM/RPM) – \pm 1 digit over 5000 FPM/RPM – \pm 0.05%	Operating Temp.:	0 to 50 °C (32 to 122 °F).
Resolution:	Less than 10,000 FPM/RPM – 1 FPM/RPM. Over 10,000 FPM/RPM – 10 FPM/RPM	Operating Humidity:	Less than 80% R.H.
Sampling Time:	1 second.	Dimension:	HWD - 21 x 12x 12 cm (8.3 x 4.8 x 4.8 inch).
Range Select:	Automation.	Weight:	1Kg / 2.2 LB.
Circuit:	This stroboscope/tachometer employs a custom one-chip of microcomputer LSI circuit & crystal control time base which results in extraordinary accuracy over a wide, dynamic range.	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.

FLASH TUBE SPECIFICATIONS

Flash Tube:	Xenon lamp.	Operating Duty Cycle:	<i>For prolong life and safe operation. please adhere to the following duty cycle:</i>
Flash Duration:	Approximately 60 to 1,000 microseconds.		Below 1,000 RPM - 30 Minutes. Above 3,600 RPM - 5 Minutes.
Flash color:	Xenon white 6,500 ° K.		Always allow a 10 minute cooling off period between cycles.
Flash energy:	4 Watts-seconds (joules).	Flash Tube Replacement	It is required to change the flash tube when the instrument start to flash irregularly at speeds of 3600 RPM/FPM or more.
Beam Angle:	80		

OPERATIONS PROCEDURES

Preparation:	(a) Plug unit into a properly grounded 110V AC, 220V AC or 230V AC outlet. (b) Turn the power switch to "on" position. (c) Determine the range switch to "Low" or "High" position.
Checking Speed:	When checking speed, care must be taken to insure that the strobe is flashing in unison (one to one) with the object being monitored. A Stroboscope will also stop motion at 2:1.3:1.4:1 et., this is normally referred to as harmonies. To be sure of unison. turn the dial until two images appear – this will double the actual speed. Then lower the flashing rate until a single and stationary image appears – this is the actual true speed.
Checking Motion:	For motion analysis, simply locate the actual speed as mentioned above and then turn the dial slowly up or down. This will give a slow motion effect allowing complete inspection.

Remark: When order the stroboscope, should inform the power supply type is AC 110V, 220V or 230V