TACHOMETER/STROBOSCOPE

Model: DT-2259 *ISO-9001, CE, IEC1010*







The Art of Measurement

TACHOMETER/STROBOSCOPE, Model: DT-2259

(2 in 1, DIGITAL PHOTO TACHOMETER with DIGITAL STROBOSCOPE)

FEATURES

- * Intelligent, microprocessor circuit design, high accuracy, wide range, digital readout.
- * One instrument include two functions of " Digital Photo Tachometer " & " Digital Stroboscope "
- * Digital Stroboscope :

Wide setting range from 100 RPM to 100,000 RPM, digital display with high accuracy. Modern solid state high visible orange light, long life, almost maintenance free. It 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 Photo Tachometer :

No contact RPM measurement, wide measuring range from 0.5 to 100,000 RPM. 0.1 RPM resolution for the measured value < 1000 RPM. The last value, max., value, min. value can be stored into the memory automatically & be obtained by pressing " Memory Call Button ". High visible LCD display gives RPM reading exactly with no guessing or errors.

* The use of durable, long lasting components, including a strong, light weight ABS plastic housing. Cabinet has been carefully shaped to fit comfortable in either hand.

GENERAL SPECIFICATIONS					
Display	5 digits, 10 mm (0.4") LCD	Operation	0 - 50 °C (32 - 122 °F).		
	(Liquid Crystal display) with	Temperature			
	function annunciation.	Operating	Less than 80% RH.		
Accuracy	± (0.1 % + 2 digit).	Humidity			
Sampling Time	1 second (60 RPM).	Size	215 x 65 x 38 mm.		
Time base	:Quartz crystal.		(8.5 x 2.6 x 1.5 inch).		
Circuit	Exclusive one-chip design	Weight	300g(0.66 LB)/including battery.		
	microprocessor LSI circuit.	Accessories	: Carrying case 1 PC		
Battery	4 x 1.5V AA (UM-3) battery.		Operation manual1 PC		

ELECTRICAL SPECIFICATIONS (PHOTO TACHOMETER)				
Measurement Range	5 to 99,999 RPM		•	
Resolution	0.1 RPM (< 1,000 RPM)	1 RPM	(1,000 RPM)	
Photo Tach. detecting distance	50 to 150 mm/2 to 6 inch.			
	* Typical max. 300 mm/12 inch depending upon ambient light.			

ELECTRICAL SPECIFICATIONS (STROBOSCOPE)				
Stroboscopic	100 to 100,000 FPM/RPM	Flash tube	High efficiency orange LED	
Flash Rate	FPM : flash per minute		lamp.	
	RPM : round per minute	Flash Duration	Approximately 60 to 1,000	
Flash Adjust	3 ranges :		microseconds.	
Range	Range A: 100-1,000 FPM	Flash color	Orange	
	Range B: 1,000-10,000 FPM	Flash Duration	Approx. 16% of period time.	
	Range C: 10,000-100,000 FPM	Flash Adjust	Coarse adjust knob and	
Resolution	0.1 FPM/RPM.	Knob	Fine adjust knob.	
	(Less than 1,000 FPM/RPM)	Calibration	Crystal time base and	
	1 FPM/RPM		microprocessor circuit, don't	
	(Over 1,000 FPM/RPM)		necessary take any external	
			calibration process.	

	OPERATIONS PROCEDURES (STROBOSCOPE)
Preparation	Determine the range switch to " 1000 RPM " ," 10,000 RPM " or
	" 100,000 RPM " position.
Checking	When checking speed, care must be taken to insure that the strobe is flashing in
Speed	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	For motion analysis, simply locate the actual speed as mentioned above and then
Motion	turn the dial slowly up or down. This will give a slow motion effect allowing
	complete inspection.