# **DIGITAL STROBOSCOPE**

## Model : DT-2269

### *ISO-9001, CE, IEC1010*







#### **FEATURES**

- \* Push keyboard setting.
- \* External trigger input.
- \* RS232 computer interface output.
- \* Flash rate :
  5 to 10,500 RPM/FPM.
  0.083 to 175 Hz
- \* Display 14 mm LED, 6 digits.
- \* High resolution.
- \* Main function : Fine adjust, Coarse adjust, Multiply by 2, Divide by 2, Fast finder, Memory recall.
- \* Memorize 10 sets of measuring data.
- \* Crystal time base and microprocessor circuit, not necessary take any calibration procedures.
- \* Power supply : AC 110V/220V/230V, 50/60 Hz.
- \* Application for inspecting and measuring the speed of moving gears, fans, centrifuges, pumps, motors, general industrial maintenance, production, quality control,

laboratories, schools and colleges...

Supplied in Australia by Instrument Choice Call our scientists on 1300 737 871 www.instrumentchoice.com.au



#### push keyboard setting, external trigger, RS232 DIGITAL STROBOSCOPE, Model : DT-2269

#### FEATURES

\* DT-2269 is a microprocessor circuit design, high accuracy, digital readout STROBOSCOPE. Adjusting the "Flash Rate" by push button keyboard, unique design in the world, easy operating & with intelligent function. 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.

\* External trigger input.

\* RS232 computer interface output.

		SPECIFIC	ATIONS			
Display	14 m	m ( 0.56" ) LED, 6 digits.	External trigger	Input signal : 5V to 30 V rms.		
Set up unit	Flash rate - RPM/FPM, Hz			5 to 10,500 RPM.		
	* FPM - flash per minute.			0.083 to 175 Hz.		
Flash rate	RPM	5 to 12,500 RPM.	Power supply	AC 110V 10%, 50/60 Hz.		
set up range	Hz	0.083 to 175 Hz.		or AC 220V 10%, 50/60 Hz.		
	RPM	0.1 RPM		or AC 230V 10%, 50/60 Hz.		
Resolution	FPM	5 to 999.9 RPM	Circuit	This stroboscope/tachometer		
( internal trigger )		1 RPM		employs an custom one-chip		
		1,000 to 9,999 RPM		of microcomputer LSI circuit		
		10 RPM		& crystal control time base		
		10,000 to 12,500 RPM		which results in extraordinary		
	Hz	0.001 Hz		accuracy & high set up		
		< 10 Hz		stability over a wide, dynamic		
		0.01 Hz		range.		
		10 Hz - 99.99 Hz	Power	Less than 30 Watt.		
		0.1 Hz	consumption			
		100 - 208 Hz	Operating temp.	0 to 50 ℃ (32 to 122 °F).		
Accuracy	± ( 0.15 % + 0.2 RPM ) rdg.		Operating humidity	Less than 80% R.H.		
	< 1,000 RPM		Dimension	21 x 12 x 12 cm		
	± ( 0.5 % + 1 RPM ) rdg.			(8.3 x 4.8 x 4.8 inch).		
	1,000 to 3,300 RPM		Weight	1Kg/2.2 LB.		
	± 1 9	% FS.	Housing case	Compact and impact plastic		
	3,301, to 12,500 RPM			injection case with plastic		
	rdg : reading, FS : full scale			mirror type reflector.		
Switch Select	RPM,	Hz	Calibration	Crystal time base and		
Function	Fine adjust, Coarse adjust,			microprocessor circuit, not		
	Multiply by 2, Divide by 2,			necessary take any external		
	Fast finder, Memory recall.			calibration procedure if the		
Memory	Can memorize 10 sets of			stroboscope working properly.		
	measuring data.		Accessories	Operation manual1 PC.		
Set up stability	1 di	git within 10 minute.	included	Power cord1 PC.		
Data output	RS 2	32 computer interface.	Optional Accessory	RS232 cableUPCB-02		
Operating duty	For p	For prolong life and safe operation, please adhere to the following duty cycle:				
Cycle	< 20	00 RPM - 2 hours,	2000 to 3600 RPM -	· one hour,		
	3601 to 8000 RPM - 30 minutes, > 8000 RPM - 10 minutes.					
	* 10 min. cooling off period between cycles.					

FLASH TUBE SPECIFICATIONS					
Flash tube	Xenon lamp.	Flash tube	It is required to change the		
Flash Duration	Approximately 60 to 1,000	replacement	flash tube when the		
	microseconds.		instrument start to flash		
Flash color	Xenon white 6,500 K degree		irregularly at speeds of 3600		
Flash energy	4 Watts-seconds (joules).		RPM/FPM or more.		
Beam Angle	80 degrees.				

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, or			
	220 V or 230V.			

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