Xenon tube, + Laser photo Tachometer, ACV power

STROBOSCOPE

Model: DT-2289 *ISO-9001, CE, IEC1010*



Features:

- * Stroboscope use high intensity XENON tube.
- * LCD display with back light.
- * Stroboscope range: 100 to 10,000 RPM.
- * External trigger for stroboscope.
- * Photo tachometer range: 10 to 99,999 RPM.
- * Photo tachometer use the laser light beam.
- * DCV power supply via external AC/DC adapter included)





The Art of Measurement

COMBINATION STROBOSCOPE

Model: DT-2289

1. FEATURES

Digital Stroboscopo Lacor Photo Tachomotor				
Digital Stroboscope, Laser Photo Tachometer,				
Contact Tachometer (optional probe), 3 in 1,				
intelligent function.				
* 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.				
* Xenon flash tube with plug and socket, easy to make				
the tube replacement.				
* Use an exclusive one chip MICRO-PROCESSOR				
LSI-circuit and crystal time base to offer high accuracy				
measurement & fast measuring time.				
* Wide measuring range.				
* Stroboscope build in external trigger input.				
* Long distance Laser Photo Tachometer build in.				
* Stroboscope use high bright xenon tube.				
* Optional Contact Tachometer probe is available.				
* Compact and heavy duty housing case.				

2-1 General S	pecifications			
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	0 to 50 °C (32 to 122°F)			
Temperature	0 10 00 0 (02 10 122 1)			
Operating	Less than 80% R.H.			
Humidity	2005 than 00 /0 it.iii.			
Power Supply	AC(100V to 240V) to DC 9V (3A)			
l ower suppry	adapter.			
Power	Stroboscope (3600 FPM) :			
Consumption	DC 2.4 A.			
consumption	Laser photo Tachometer (3600 RPM) :			
	DC 50 mA.			
Weight	1 Kg (2.2 LB).			
Dimensions	21 cmx12 cm (8.3"x4.8"x4.8").			
Accessories	Operation manual1 PC.			
Included	AC(100V to 240V) to DC 9V adapter			
meiadea	1 PC.			
	Reflective tape			
Optional	Contact Tachometer probe			
Accessories	Model : TA-35			
Accessories	Flash Xenon tubeModel : TBXE-2289			
	TIGSTI ACTION TUDEIVIOUCH . TDAL-2209			

2-2 Electrical Specifications of Stroboscope

Stroboscope Specification			
Stroboscopic	100 to 15,000 flashes per minute (FPM).		
Flash Rate	Low range: 100 to 1,000 RPM/FPM.		
	High range: 1000 to 15,000 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	Input signal: 5V to 30 V rms,		
TriggerInput	5 to 15,000 RPM/FPM.		

Flash Tube Specification				
Flash tube	Xenon lamp.			
Flash Duration	Approximately 60 to 1,000			
	microseconds.			
Flash color	Xenon white 6,500 K degree.			
Flash energy	4 Watts-seconds (joules).			
Beam Angle	80 degrees.			
Flash tube	It is required to change the flash tube			
replacement	when the instrument start to flash			
	irregularly at speeds of 3600 RPM/FPM			
	or more.			
	Flash tube with plug and socket, easy to			
	make the replacement.			
Operating duty	For prolong life and safety, please			
Cycle	adhere to the following operation duty			
	cycle: < 2000 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.			

2-3 Electrical Specifications of Laser Photo Tachometer

Range	10 to 99,999 RPM		
Accuracy	± (0.05% + 1 digit).		
Sampling Time	1 sec. (60 RPM).		
Photo	50 - 2,000 mm typically.		
Tachometer	* Spec. of detecting distance are that		
detecting	under the size of reflecting tape is 10		
distance	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.		
Resolution	0.1 RPM < 1,000 RPM		
	1 RPM ≥1,000 RPM		
Time base	Quartz crystal		
Laser light	* Less than 1 mW.		
source	* Class 2 laser diode. Red. Wave length		
	is 645 nm approximately.		
source	* Class 2 laser diode. Red. Wave length		
	is 645 nm approximately.		

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

rachometer (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	RPM adapter (CONE) 1 PC.				
Included	RPM adapter (FUNNEL) 1 PC.				
	Surface speed test wheel 1 PC.				
'II I II II 11 11 11 11 11 11 11 11 11 11					

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