STROBOSCOPE

This Stroboscope is small in size, light in weight, easy to carry. Although complex and advanced, it is convenient to use and operate. Its ruggedness will allow many years of use if proper operating techniques are followed. Please read the following instructions carefully and always keep this manual within easy reach.

1. FEATURES

- When the speed of the moving object matches the flash rate of the stroboscope, the moving object appears still. The unit can give the operator the illusion of 'stopped motion' where in actuality the equipment under observation is in a moving state. By adjusting the flashing rate. equipment in motion appears to be standing still. With a slight adjustment, movement can be viewed in apparent slow motion. Which enables the observer or the operator to study the process in action.
- * Wide measuring range & high resolution.
- Digital display gives exact reading with no guessing or errors.

*	Flash	timer	control	conserv	es flasl	n
	tuhe li	fe				

- * External trigger allows unit to be automatically
- * Strong flash light at low range and week flash light at high range.

2. SPECIFICATIONS

Display: 10 mm (0.4") LCD (Liquid Crystal Display)

Parameters Measured: FPM (Flashes Per Minute)

Ranges:

2350A:	50~12,000 FPM □
2350B:	50~40,000 FPM □
2350C:	50~20,000 FPM □
2350D:	50~30,000 FPM □
2350E:	50~2,000 FPM □
(Model	E is specially designed
for Prin	ting and Textile industry)

Resolution:

0.1 FPM(50~999.9 FPM) 1 FPM(over 1000 FPM)

3-6 Fi

(Flashing Rate Adjusting Knob) 3-7 Jack for external triggering signal 3-8 Internal/external triggering button

3-9 x2 button for fast check

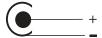
3-10 ÷2 button for fast check

4. MEASURING PROCEDURE

- 4.1 "Mark" the object to be measured by either visually noting an inherent distinguishing characteristics (such as a label scratch, etc.) or physically marking the object with a small piece of tape, pencil mark, etc.
- 4.2 Plug the supplied power cable into the power cable jack of the instrument. Plug the other end of the cable into an appropriate AC power source. Do not plug the device into an incorrect power source otherwise damage to the instrument will result. Use

Accuracy: ±(0.05%n+1d)
Sampling Time: 0.3 second
Internal/external triggering conversion

External trigger level: 3-24 V



H/L range:

Flashing light is much brighter at low range than at high range.

Strobe Flash tube type:

Xenon lamp

Operating conditions:

Temp: 0~40°C

Humidity: <85% RH

Power supply: 220VA.C. (Default)

□ 110VA.C.

With x2, $\div 2$ for fast check

Size: 215x85x180 mm (8.5x3.3x7.1 inch)

Weight: about 1000g

the ON/OFF switch to turn the instrument on or off.

- 4.3 Depress the H/L button (3-4) to select the Hi range or Low range. For different models, the upper limits vary. Please note, flashing light is much brighter at low range than that at hi range in order to prolong lifetime of strobe light.
- 4.4 Adjust the Coarse Knob 3-5 or the Fine Knob 3-6 from highest FPM downward. The true RPM can be noted once the frozen appears and the first single image of "Mark" appears. See chart in table 1 and accompanying diagram for further explanation.
- 4.5 To verify RPM reading, press "÷2", a single image should appear again. And press "x2", 2

Accessories:

3. FRONT PANEL DESCRIPTIONS



- 3-1 Flash Tube (Xenon 1amp)
- 3-2 Power Switch
- 3-3 Display
- 3-4 Range Switch
- 3-5 Coarse

(Flashing Rate Adjusting Knob)

images should appear.

- 4.6 While measuring, use the RANGE button to select the range as desired. The Low range is used for measurements below 2,500 RPM (for E type) or 5,000 RPM (for A to D type). At low range, flashing light is much brighter.
- 4.7 Use the Ext/Int button to select the external trigger or internal trigger way as desired.

5.NOTES

- 5.1 This device causes moving objects to appear still. Take precautions against accidental contact with moving objects.
- 5.2 Do not look at the emitted light for long periods of time; it can be harmful to the eyes.
- 5.3 Do not touch the flash tube.
- 5.4 Do not operate or store instrument

in following places: explosive areas, near water, oil, dust, or chemicals, areas where temperature is too high.

6. FLASH TUBE REPLACEMENT when reading is displayed but unit is not flashing, the tube might be needed to be replaced.

7. AUTO STOP FLASHING

Table 1

	in following places: explosive areas,	Table I		
he he	near water, oil, dust, or chemicals, areas where temperature is too high. 6. FLASH TUBE REPLACEMENT	Shaft Rotation 11 and Flashing 110 relatioship	Stopped Imag es	note
ge ow 00 ow	when reading is displayed but unit is not flashing, the tube might be needed to be replaced.	n=n ₀		Single images
ch t	7. AUTO STOP FLASHING The strobe light of stroboscope will stop flashing about 5 minutes after	$n=kn_0$ $k=1,2$		Single images
	power on the stroboscope in order to prolong lifetime of strobe light. To make it work again, one have to	$n=1/2n_0$		2 images
ng ke tal	power off the stroboscope and power it on again.	$n=3/4n_0$	\oplus	4 imag es
ght be		$n=5/2n_0$		2 images
nt	148	$n=1/3n_0$		3 imag es
	ianoic	WU,		
	"NN -10" -201	6,		
	MMN ISUQI			