

# Phaser-Strobe Series



Phaser-Strobe PB 115

## Applications:

- Calibration of tachometers
- Textiles
- Engine R+D

## ORDERING INFORMATION

### Phaser-Strobe PB 115

Stroboscope – 30-32,500 FPM, with R-5 (115Vac) recharger

### Phaser-Strobe PB Kit 115

Phaser-Strobe PB 115 with PSC-3 (115 Vac) power supply/recharger and spare lamp in latching case

### Phaser-Strobe PB 230

Same as Phaser-Strobe PB 115, but with R-6 (230 Vac) recharger

### Phaser-Strobe PB Kit 230

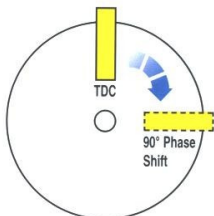
Same as Phaser-Strobe PB Kit 115, but with PSC-4 (230 Vac) power supply/recharger

**Phaser-Strobes** incorporate the unique design features of the Nova-Strobe DB Plus family with an increased operating range of 30 to 32,500 flashes per minute, as well as external phase shifting throughout the complete

operating range. Phaser-Strobe can multiply or divide the flash rate by 2 with the press of a button, quickly identifying the actual speed and harmonics. The unique digital adjustment knob can select the decade for adjustments, so coarse and fine adjustments of flash rates are made quickly and with significantly better resolution than competitive units. The memory feature of the Phaser-Strobe allows three frequencies to be stored – displayed in flashes per minute or flashes per second (Hertz). Phaser-Strobe operates with internal rechargeable batteries or continuously from AC line power with the optional power supply/recharger.

## N.I.S.T. Traceable Certificate of Calibration included

- Phase Shift delays adjustable as phase angle or time with resolution to 0.1 ° and 0.0001 seconds
- Auto step mode provides slow motion viewing for high speed repetitive event
- Backlit alphanumeric LCD shows flash rate, degrees, time
- Store and recall three memory settings
- TTL compatible input/output jacks
- Power for optional sensors
- Tachometer mode from external trigger



View stopped motion at top dead center, then phase shifted in degrees or time to 3 o'clock location.

Specifications	Phaser-Strobe PB
<b>Flash range</b>	30-32,500 FPM (Flashes per minute) (RPM) 0.5-533.33 FPS (Flashes per second) (Hz)
<b>Accuracy</b>	±0.01% of reading
<b>Digital Adjustment Knob (All ranges and modes)</b>	32 detents per revolution. Decade change push mode enables any value to be changed in decade steps (powers of 10) from 0.0001 per detent to 10,000 per detent
<b>Flash Rate Resolution</b>	±0.05 FPM from 30.00 to 2,999.95 FPM ±0.5 FPM from 3,000.0 to 32,500 FPM
<b>Flash Rate (External Triggering)</b>	5-9,999.9 FPM 10,000-32,500 FPM 0.5000-541.66 FPS
<b>Phase Delay - Degrees</b>	0-359 ±0.1                      100-3,499.0 FPM 0-355 ±0.1                      3,500-9,999.9 FPM 0-350 ±0.1                      10,000-32,500 FPM
<b>Time Delay - Seconds</b>	0 to 6.500 seconds ±0.0001 seconds
<b>Auto Step Mode (Range)</b>	Step Size 0.0-180.0° Step Rate 0.0001-6.50 seconds per step
<b>Flash Energy (Typical)</b>	150 mJoule < 10,000 FPM 50 mJoule > 10,000 FPM
<b>Flash Duration (Typical)</b>	10-30 microseconds
<b>Average Power - Watts</b>	10W
<b>Tachometer Mode</b>	5-200,000 RPM from external trigger (flash inhibited above 33,000 FPM)
<b>External Input (1/8" phone plug)</b>	Input Pulse – 5 microseconds min, TTL to 24V max
<b>Trigger Output/Remote Sync (Typical)</b>	5V TTL compatible negative edge, 500 microseconds pulse
<b>Power</b>	Internal rechargeable batteries or AC power supply/recharger
<b>Weight</b>	2.5 Lbs (1.2 kg) including batteries