

# PORTABLE STROBOSCOPE (External phase-shifting)

## Phaser-Strobe Series

NIST CE



Phaser-Strobe PB 115

### Applications:

- Calibration of tachometers
- Textiles
- Engine R+D

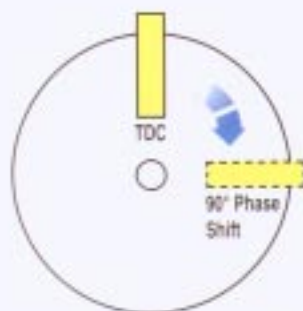
### ORDERING INFORMATION

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