

Phaser-Strobe pbx

RoHS NIST



The **Phaser-Strobe pbx** incorporate the unique design features of the Nova-Strobe dbx with an increased operating range of 30 to 50,000 flashes per minute, as well as external phase-shifting. 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 pbx** allows nine flash rates to be stored - displayed in flashes per minute or flashes per second. **Phaser-Strobe pbx** operates with internal rechargeable batteries or continuously from AC line power with the power supply/recharger.

Features:

- N.I.S.T. Traceable Certificate of Calibration included
- Phase Shift adjustable as phase angle or time with resolution to 0.01° and 0.01 msec
- Virtual RPM mode provides slow motion viewing for high speed events
- Backlit alphanumeric LCD shows flash rate, degrees, time
- Store and recall nine memory settings
- TTL compatible input/output jacks, power for optional sensors
- Tachometer mode from Remote Sensors (see page 9)



Phaser-Strobe pbx

**Common Applications:**

- Calibration of Tachometers
- Diagnostic Inspection
- Engine R&D
- Textiles
- Centrifuges
- Shaker Tables

Remote Optical Sensor
(ROS-P) Gap 36 inchesRemote Magnetic Sensor
(MT-190-P) Gap 0.25 inchesRemote Infrared Sensor
(IRS-P) Gap 0.50 inches

Specifications	Phaser-Strobe pbx
Flash Range	30-50,000 FPM (Flashes/Minute) 0.5-830 FPS (Flashes/Sec) (Hz)
Accuracy	±0.002% of Setting +/- least significant digit
Digital Adjustment Knob	36 detents per revolution and blinking decade selection
Flash Rate Resolution (Internal Triggering)	0.01 to 1.0 FPM (Menu Selectable)
Update Time	Instantaneous
Phase Delay - Degrees	0.1 to 359.9 degrees
Time Delay - Seconds	0.01 to 1000 msec.
Virtual RPM (Slow Motion)	0-200 VRPM
Flash Energy (Typical)	230mJoule up to 3450 FPM
Flash Duration (Typical)	8-20 usec
Average Power - Watts	11W @ 3000 FPM; >13W @ 3450 FPM
Tachometer Mode	5-250,000 RPM from external trigger
External Input	Input Pulse - 0.5 usec min, TTL to 24V max (1/8" phone plug)
Trigger Output/Remote Sync	3.3V TTL Compatible 40 usec pulse-Positive/Negative
Power	Internal rechargeable batteries with AC power supply/recharger
Weight	1.9 Lbs. (0.85 kg) including batteries

Ordering Information

Phaser-Strobe pbx 115/230 - Stroboscope with PSC-pbxU (115/230 Vac) Power Supply/Recharger

Phaser-Strobe pbx Kit 115/230 - Same as above with Spare Lamp and Latching Carrying Case

PORTABLE STROBOSCOPES (for use with Vibration Data Collectors)

Vibration-Strobe VB

Vibration Strobe is uniquely designed to provide precise, instantaneous synchronization to a number of data collectors and FFT Analyzers triggered by an accelerometer. Built for rugged, portable applications, the **Vibration Strobe** is the perfect lightweight phase analysis tool. **Vibration Strobe** allows for the measurement of phase without stopping the machinery to install reflective tape. Phase analysis is quick and accurate using the Filter Bandwidth Selector and the Relative Phase Adjustment. Unique "Tracking Filter" maintains phase lock to input pulse.

Kits include: Strobe, interface cable, fast recharger and spare lamp in latching carrying case.

Specifications	Vibration Strobe
Flash Range	100-12,000 Flashes Per Minute (FPM)
Display	5-Digit Backlit Liquid Crystal Display
Accuracy	± 1 FPM
Flash Energy	180 mJoule
Flash Duration (typical)	30 µSec.
Lamp Life (typical)	100 million flashes
External Trigger	TTL (24V max) provides 5V out
Tracking Filter	Selectable Wide and Narrow Bandwidths
Operating Time	60 minutes at 6,000 FPM
Relative Phase Adjustment	Selectable -90° to +90°
Power	6 Vdc, Internal Rechargeable Batteries; 115Vac, 50-400 Hz or 220-240 Vac, 50-400 Hz Fast Charger
Weight	2.5 Lbs. (1.1 kg)



Vibration Strobe VB-115

Ordering Information
Contact Factory for available Models.