

# TSV-1000

Tachometer Stroboscope Calibrator / Verifier

## Operating Instructions



## ***Thank you!***

Dear Customers,  
Thank you for purchasing the TSV-1000 Tachometer and Stroboscope Calibrator / Verifier. This instruction manual will help you to use the many features of your new device. Before operation, please read this manual completely, and keep it nearby for future reference.

## **SPECIFICATIONS**

<b>Accuracy</b>	± 0.01% ± 1 digit
<b>Presets</b>	10 Programmable RPM setpoints (TACHOMETER MODE)
<b>Operating Modes</b>	TACHOMETER and STROBOSCOPE
<b>Power Supply</b>	100-240V AC to 5V DC
<b>Warranty</b>	1 Year

## **BEFORE USING THE TSV-1000**

Plug in the AC (100-240VAC) to DC (5V) power adapter.

Remove the pulsor / sensor from the rear panel storage slot and plug it into the front panel USB connector.

Power on the device using the switch on the rear

## **TSV-1000 Operation**

By default, the device will start in TACHOMETER mode and will pulse at RPM preset # 1 of 10.

To switch to STROBOSCOPE mode, press **S** while in TACHOMETER mode.

To switch to TACHOMETER mode, press **T** while in STROBOSCOPE mode.

### **• TACHOMETER MODE**

To test a non-contact tachometer, hold the tachometer so that its sensor is 0.5-2 inches / 12-50mm from the TSV-1000 pulse sensor.

When the tachometer is in measuring mode its display should be in-sync or close to in-sync with TSV-1000's display. The allowable tolerance will depend on the tachometer's specifications.

While in TACHOMETER mode, press **SP+** or **SP-** to toggle between presets (10).

Press **ADJ+** or **ADJ-** to adjust the pulse rate.

To adjust the presets press **DEFAULT**, the display will show Def X: Y where X is the preset number (0—9) and Y is the preset value in RPM.

Press **SP+** or **SP-** to toggle between presets (10)

Press **ADJ+** or **ADJ-** to adjust a preset.

Press **Default** to save changes and exit the preset adjustment mode returning to normal operating mode.

To restore the default setpoints, press and hold **Default** for 3 seconds.

In TACHOMETER mode, the default display is RPM. To change the display to HZ, press and hold **T** for 3 seconds. It will now display HZ. To return to RPM, press and hold **T** for 3 seconds.

#### • STROBOSCOPE MODE

In STROBOSCOPE mode, hold the the stroboscope to be tester 3-24 inches / 75-600mm away from the TSV-1000 pulse sensor. The TSV-1000's display should be in -sync or close to stroboscope's display. The allowable tolerance will depend on the stroboscope's specifications.

In STROBOSCOPE mode, the default display is FPM (flashes per minute). To change the display to HZ, press and hold **S** for 3 seconds. It will now display HZ. To return to FPM, press and hold **S** for 3 seconds.