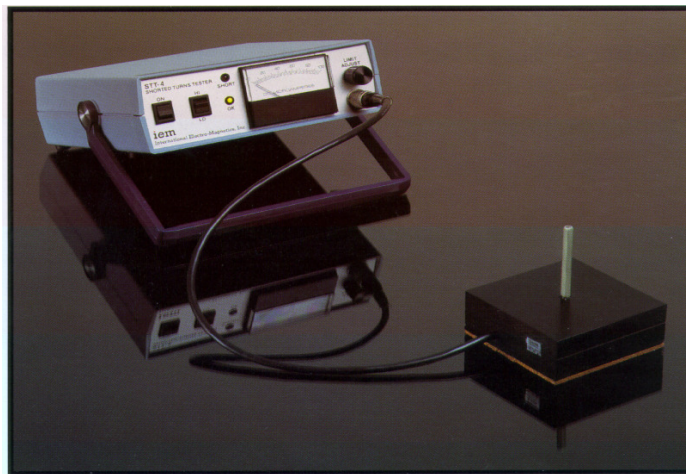


# MODEL STT-4

## Shorted Turns Tester for Bobbin Wound Coils



### FEATURES

- Fast and Easy Set-up and Use
- Go / No-Go Testing
- LED and Audible Signals
- Plug-in Test Probes
- Non-Contact / Non-Stress

The STT-4 Shorted Turns Tester offers a quick and easy means to detect shorted turns in bobbin coils. It is a non-stress and non-contact test. By placing a coil over the test probe, shorted turns will inductively couple with the probe field and load the STT-4 circuit. If there is no current path within the coil, there is no coupling.

The STT-4 is easy to set-up and to use. The tester can be used without coil standards in most cases, although sample loops of typical

coil diameters and wire sizes are helpful for set-up. An analog panel meter is provided to help the operator determine the amount of coupling and to set Go / No-Go limits.

On / Off and Limit Adjust are front panel controls. The Limit Adjust allows the user to set the trigger point for the No-Go indicator. Red and Green LED's and an Audio Buzzer provide signals for the operator. Optional TTL logic or relay drive outputs can be supplied for

automated applications.

The STT-4 offers a sensitive and accurate test, yet it is a rugged and reliable instrument. It can detect a single shorted turn of wire as small as #55 AWG (.014 mm). In general the test is independent of the number of turns in the winding. Because of the simplicity, speed and reliability of its operation, the STT-4 can detect errors early in the coil assembly process and help to prevent work on bad parts.

### SPECIFICATIONS

- Dimensions: 2 3/4" H x 8 3/4" W x 9" D, Wt. 4 lbs.  
70 mm H x 210 mm W x 150 mm D, Wt. 2 Kg.
- Power: 3 Watts, 110 or 220 Volt AC (specify)
- Controls: On/Off, Hi/Low Sensitivity, Limit Adjust;  
Meter Zero, Volume Adjust on rear panel
- Outputs: Analog Panel Meter, LED, Audio Buzzer  
optional TTL signal or relay closure



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## Standard Probe Types for the STT-4 Shorted Turns Tester

<b>TYPE</b>	<b>Diameter x Height</b> inch (mm)	<b>Part Number</b>
<b>High Wear</b>	.072 x 1" (1.8 x 50 mm)	13-0863-1
<b>High Wear / High Sensitivity</b>	.125 x 2" (3.2 x 50 mm)	13-0863-2
	.187 x 2" (4.8 x 50 mm)	13-0863-3
	.25 x 4" (6.4 x 100 mm)	13-0863-4
	.25 x 2" (6.4 x 100 mm) Dual probes	13-0863-4B 13-0863-4D
	.312 x 4" (8 x 100 mm) Dual Probes	13-0863-5 13-0863-5D
<b>Hand Held</b>	.375 x 4" (10 x 100 mm)	13-0863-6
<b>Sensing Coils</b>	6 x 2.6" (15 x 7 cm)	13-0863-7
	12 x 4" (30 x 10 cm)	13-0863-8
<b>Slot Sensor</b>	.062" (1.5 mm) Slot Width	13-0863-9

For optimum sensitivity, the probe length should be at least 1.5 times the OD of the coil being tested. Probes optimized for high turn coils (10,000 +) are also available. Other types can be made to order. Please inquire.