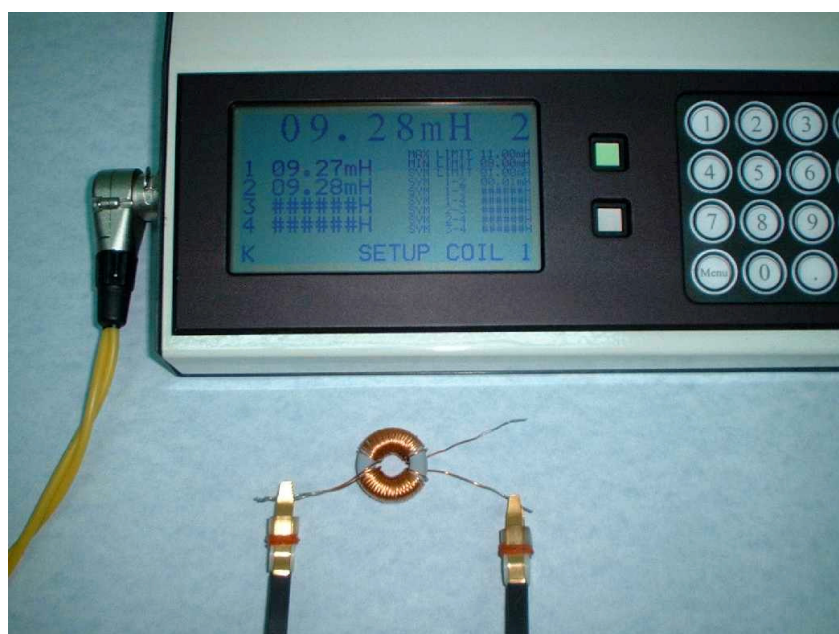


**Polydee  
Instruments**

**Polydee Instruments (Thailand) Co., Ltd.**  
**100/5 Moo 3, T. Nong Hoi,**  
**A. Muang, Chiang Mai,**  
**Chiang Mai, 50000, THAILAND.**  
**Tel. +66 (0) 53 802946**  
**Fax. +66 (0) 53 800112**  
**E-mail: sales@polydee-instruments.com**

## Inductance Symmetry Tester



Polydee Instruments have purposely developed this instrument to assist in the measurement of multi-coil inductors with the specific objective of calculating the difference (Symmetry) between the coils in the inductor assembly under test.

### TEST CONDITIONS

$\leq 50\text{mV RMS}$ ,  $\leq 250\text{mA RMS}$ , 1KHz or 10KHz

Accuracy  $\pm 2\%$  individual reading.

Range determined by Maximum limit setting as follows:

#### **Using 10KHz sine wave:**

0.000uH TO 4.000uH, 4.001uH TO 5.000uH, 5.001uH TO 6.000uH, 6.001uH TO 9.999uH, 10.00uH TO 20.00uH  
20.01uH TO 30.00uH, 30.01uH TO 50.00uH, 50.01uH TO 99.99uH, 100.0uH TO 200.0uH, 200.1uH TO 300.0uH  
300.1uH TO 600.0uH

#### **Using 1KHz sine wave:**

600.1uH TO 999.9uH, 1.000mH TO 2.000mH, 2.001mH TO 3.000mH, 3.001mH TO 7.000mH, 7.001mH TO 9.000mH  
9.001mH TO 9.999mH, 10.00mH TO 20.00mH, 20.01mH TO 60.00mH, 60.01mH TO 99.99mH, 100.0mH TO 20.00mH  
200.1mH TO 60.00mH, 600.1mH TO 999.9mH

## ENVIRONMENT

The tester has been designed to operate within the following conditions:

Between 0°C and 35°C ambient temperature.

Mains power input range of 85 to 264V AC @ 50 or 60 Hz or 110 to 375V DC.

## CONTROLS

User menu system giving control over the following:

Number of coils (1 to 4)

Maximum limit (used for every measurement & also sets the measurement range)

Minimum limit (used for every measurement)

Symmetry limit (used when there is more than 1 coil measured)

Measurement mode: Auto (timed), Key (key pad press) or Foot (external switch input)

Sound mode: Off (no audio prompt), Low (low volume audio prompt) or High (High volume audio prompt).

Display contrast adjustment

Display backlight adjustment

System restart (used to restart tester without removing the power)

## CALIBRATION

The tester will perform an automatic calibration under the following conditions:

After power is first applied.

After a system restart.

If the temperature inside the tester has risen by more than 5°C since the last calibration.

If the system software has detected an unrecoverable error (system will restart forcing a calibration sequence)

The following is a typical results display.

