

## Component Tester CT08



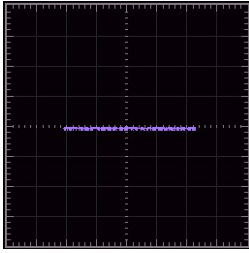
### Introduction

The new Component Tester designed and developed by Scientific is used with Scientific Digital Storage Oscilloscopes for instant display of a test pattern to indicate whether or not components are faulty. The **CT** can be used for quick checks of all semiconductors, resistors, capacitors, and inductors. Certain tests can also be made to integrated circuits. All these components can be tested in and out of circuit. Since this circuit operates with mains frequency (50 Hz) and a voltage of 8.5 Vrms max. (open circuit) the indicating range of the **CT** is limited to a range from 20 Ohms to 4.7 K. Below and above these values, the test pattern shows only short-circuit or open circuit. For the interpretation the displayed test pattern, these limits should always be born in mind. However, most electronic components can normally be tested without any restriction.

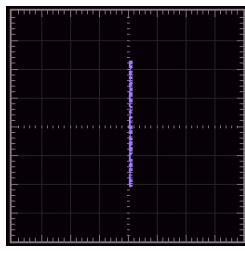
### Technical Specifications

Input	230VAC
Output Voltage	8.5Vrms
Output Current	8mArms
Output Frequency	50Hz
Standard Accessories	Mains Cord, Test prods – 01 Set, BNC-BNC Cables – 02

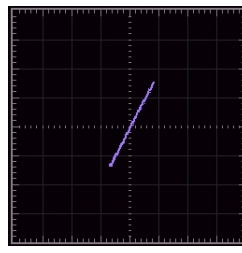
# Test Patterns



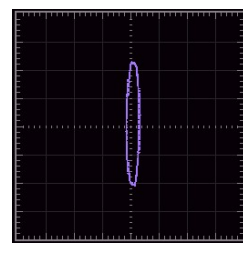
Open Circuit



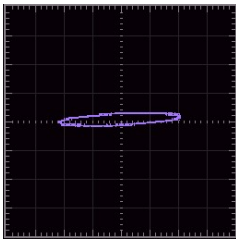
Short Circuit



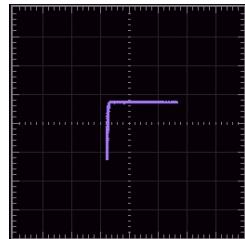
Resistance 511Ω



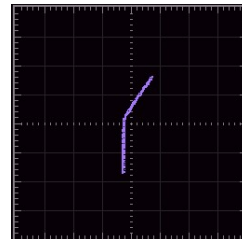
Capacitor 30μF



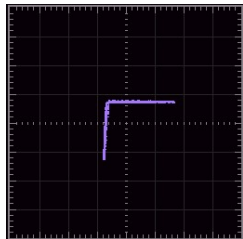
Transformer Primary



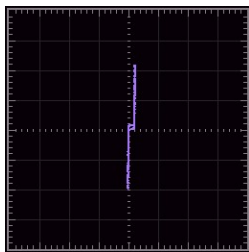
Diode/Rectifier



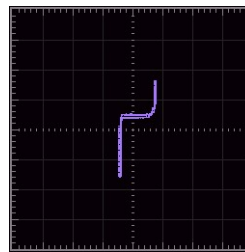
Diode paralleled by 680Ω



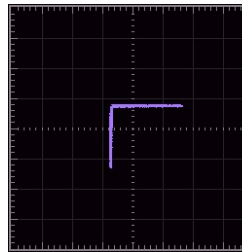
Diode series by 51Ω



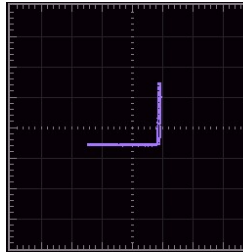
2 Diodes anti-parallel



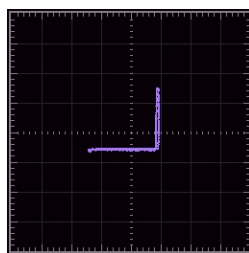
Zener Diode < 8V



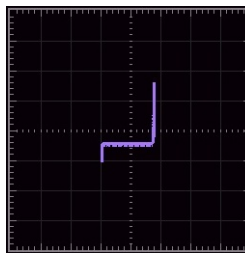
Zener Diode > 12V



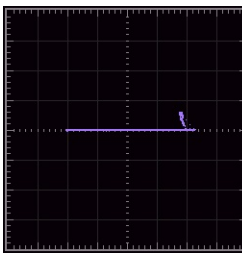
FET



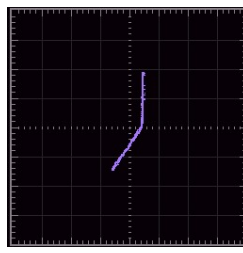
Junction B-C



Junction B-E



Junction E-C



B-E paralleled by 680 Ω

Subject to change without notice

**scientific**

**Scientific Mes-Technik Pvt. Ltd.**

B-14, Industrial Estate, Pologround, Indore 452 015, India

0731-2422330/31/32/33

0731-2422334

sales@scientificindia.com

www.scientificindia.com

Bengaluru 080-23452635

Chennai 044-42054180

Gujarat +917567463752

Hyderabad +917095228811

Kanpur +919981329105

bangalore@scientificindia.com

chennai@scientificindia.com

gujarat@scientificindia.com

hyderabad@scientificindia.com

up@scientificindia.com

Kolkata +919673162333

Mumbai +919850901735

New Delhi +918770013379

Pune +919603828884

kolkata@scientificindia.com

mumbai@scientificindia.com

ndelhi@scientificindia.com

pune@scientificindia.com

