



# CS-100

## 1mA Current Source

### HAND-HELD INSTRUMENT SIMPLIFIES THERMAL TEST CHIP TEMPERATURE MEASUREMENTS

#### DESCRIPTION

The CS-100 is designed to provide the current required for using the diodes built into the TTC-1001 and TTC-1002 Thermal Test Chips to measure diode junction temperature. The unit contains a precision current source for supplying diode measurement current ( $I_M$ ) and a digital voltmeter for diode measurement ( $V_M$ ). A 9V internal battery powers the unit for quick measurement; an optional AC mains adaptor powers the unit for longer measurements.

The internal precision  $I_M$  current source provides 1.00mA. Voltage compliance is  $\leq 4V$ . The internal voltage measurement circuit provides measures to 1.999V with 1mV resolution.



#### FEATURES

- Self-contained for easy setup and operation
- mV diode voltage resolution
- Battery operated for electrical isolation
- Banana Plug input connectors

#### SPECIFICATIONS

Diode Current Source	
Number of Channels	1
Measurement Current	1.00mA
Accuracy	$\leq 0.5\%$
Voltage compliance	$\leq 4V$
Connection	Banana Jacks
Diode Voltage Measure	
Number of Channels	1 (integrated with Current Source)
Range	1.999V
Resolution	1mV
Accuracy	0.01% of fs $\pm 1$ mV

#### ORDERING INFORMATION

Model Number	Description
CS-100	Base Unit Includes Red & Black banana plug test leads with mini-grabber ends
CS-100-01	Power Supply Adaptor Universal 95-240VAC mains input

**Thermal Engineering Associates, Inc.**

3287 Kifer Road, Santa Clara, CA 95051 USA  
Phone: 650-961-5900 Email: info@thermengr.com

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