Component Parameter Test Instruments

C. TH1773 DC Bias Current Source

Features

- MPU control
- 20×2 large character LCD display with backlight
- Frequency bandwidth: 50 Hz 200 kHz
- 0 to 10A current output, max power output 90 W
- Directly controllable by TH2816A, TH2817A, TH2818, and TH2819
- Low additional error, wide frequency bandwidth
- Auto or manual current sweep output
- Single, multi and equal interval current output modes
- DC current output with forward or reverse
- 0 to 99s delay time setup
- Long time high current output available
- Optional GPIB and RS232C interface
- User control setting memory
- Strong protective design against damage of LCR meter



TH1773

Brief Introduction

■ TH1773 is a DC Bias Current Source (or DC Magnetization Current Source) used for inductance measurement of inductors and transformer windings with DC bias current. Except for constant current output, low additional error and wide frequency bandwidth are important for bias current inductance measurement. High frequency LCR meter could be used, when the frequency bandwidth is wide enough. MPU controlled auto current balance technology is adopted to realize AC+DC current overlap and constant current output from 0 to ±10A.TH1773 With its low additional error, wide frequency response bandwidth and sweep output function is widely used in DC biased inductance measurement. It also provides a perfect solution for magnetic material analysis.

Specifications

Current Range	-10A - 10A	
Current Resolution	200 mA Range: 0.1 mA	
	2A Range:0.001A	
	10A/20A Range:0.01A	

50Hz-200Hz	
ωL < 2kΩ, L<8/I (H)	
±1% of reading ±3 counts	
0-8 V	
≤ 1%	
Single, multi and Equal interal	
current output	
Manual, Auto(Return sweep	
available)	
2-15 points	
0 to 99s setup	
20 minutes	
continuous work up to 24 hours	
RS232C (used for LCR meter	
control), GPIB	

General Specifications

Operating Temperature And Humidity		0°C-40°C, ≤90%RH
Power	Voltage	198V-242V
Requirements	Frequency	47.5Hz-52.5Hz
Power Consumption		≤ 200 VA
Dimensions (W×H×D)		430mmx180mmx460mm
Weight		Approx. 16.4kg

Ordering Information

TH1773 DC Bias Current Source

Instrument Accessories

TH26004E-1 DC bias link cable
TH26013 DC bias test clip leads

TH2881-001 Foot switch

Options

TH26033 GPIB interface cable

TH10101A RS232C Handler interface board

TH10001 GPIB interface board