

ONS1610/ONS1620 DC Bias Current



ONSys Technologies OPC Pvt. Ltd.

Electronics and Electrical Test & Measurement Solutions



ONSys Technologies

Overview

- Microprocessor control
- Backlight 20*2 large LCD display
- Low additional error, wide response range
- Automatic or manual scanning of current output
- There are three modes of current output:
single point scan, multi-point scan and equi partition scan
- Long time large current output
- GPIB and RS232 interface optional
- User data is automatically saved
- Strong shock protection to prevent damage to LCR Meter.
- Directly controlled by ONS2868A/ONS2858A

Brief Introduction

ONS1610/ONS1620 DC Bias Current (DC Magnetized Power Supply) is mainly used for inductance, transformer coil inductance measurement when applying DC bias power supply. In addition to the required current, the instrument should also have requirements such as little effect on inductance measurement and wide frequency response (High frequency LCR meter can be used to measure DC current superposition). The product is controlled by microprocessors and uses automatic current and balance principle for ac/dc superposition and current stability. A constant current in the range 0-10A (ONS1610) or 0-20A (ONS1620) can be output forward or backward. The additional error produced by the product is small, the frequency response is greatly improved, and the application range of the bias test of the magnetic core inductor is greatly expanded. The direct controlled output function of ONS2868A/ONS2858A and multi-point current scan provides a good solution for magnetic material analysis.

General Specifications

ONS1610

| | | |
|---|------------------|-----------------------------------|
| Operating temperature & humidity | | 0°C - 40°C, ≤90%RH |
| Power requirements | voltage | 100 ~ 120 Vac OR 198 ~ 242 Vac |
| | frequency | 47.5Hz - 63Hz |
| Power loss | | ≤ 30VA |
| Volume (W×H×D) | | 480mm*140mm*420mm |
| Weight | | About 6.8kg |

ONSys Technologies OPC Pvt. Ltd.

Web: <http://www.onsystech.com> | Email: sales@onsystech.com, onsystech@gmail.com

Ph. No.:+91-9372898215

ONS1610/ONS1620 DC Bias Current

ONS1620

| | | |
|---|--------------------|-----------------------------------|
| Operating temperature & humidity | 0°C - 40°C, ≤85%RH | |
| Power requirements | voltage | 100 ~ 120 Vac OR 198 ~ 242 Vac |
| | frequency | 47.5Hz - 63Hz |
| Power loss | ≤ 30VA | |
| Volume (W×H×D) | 430mm*180mm*460mm | |
| Weight | About 16.4kg | |

Technical Specification

| Model Number | ONS1620 | ONS1610 |
|---------------------------------|---|--|
| Current Range | -20A-20A | -10A-10A |
| Current Resolution | 200mA measuring range: 0.1mA 2A measuring range: 0.001A 6A/10A/20A measuring range: 0.01A | |
| Current Accuracy | ±2%+3 points | ±2%+3 points |
| Current Output Mode | Single, multi-point and equipartition output | |
| Frequency Response Range | 1kHz-1MHz | 50Hz-200kHz |
| Impedance range | $\omega L < 1k \Omega$ $L < 8/I(H)$ | $\omega L < 2k \Omega$ $L < 8/I(H)$ |
| Output Voltage Range | 0-8V | |
| Basic Impedance Accuracy | ≤1% | |
| Scan Mode | Manual, Auto (can sweep back) | |
| Scan point | 2-15 points, positive or negative | |
| Delay Time | 0-99 secs can be set | |
| Warm Up Time | 20 minutes | |
| Memorizer | 5 groups instrument internal setting storage(uc1620) | |
| Interface(optional) | RS232C, RS232C interface only used to connect with LCR Meter | |

Instrument Accessories

| | |
|----------|--------------------------------|
| ONS16013 | Bias source test cable |
| ONS16023 | Four terminal cable connection |

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