

Unparalleled Service Support

The reliability of the 5440A Direct Voltage Calibrator was designed in from the beginning. No effort has been spared to make this instrument the most reliable high-accuracy calibrator in the world.

Multiple contact, cross bar relays have been employed in all critical switching areas. They are mounted in sockets and have hard gold contacts. These relays offer the most reliable operation available.

The 5440A calibrator also

includes self-diagnostics. This capability allows the instrument to locate faults down to the module level. Analog and digital tests can be selected from the alphanumeric display on the front panel.

The calibrator self-diagnostics is backed-up by a Fluke module exchange program. A faulty module is replaced quickly by Fluke's worldwide support organization.

Fluke: The Leader in Calibration Technology

The John Fluke Manufacturing Company has been the premier sup-

plier of calibration instrumentation for almost 30 years. In 1955, Fluke introduced the world's first differential voltmeter; two years later an ultra-stable dc calibrator. In the following decades Fluke expanded its calibration line with dc, ac, and computer-controlled calibration systems. Fluke also introduced portable standards and many other calibration products designed to bring greater efficiency to the calibration task. The 5440A Direct Voltage Calibrator marks another milestone in this long and distinguished history.

5440A Configuration Details

Standard Instrument Components

- Procedure Storage Module (60 steps)
- IEEE-488 Standard Interface
- RS-232-C Output
- Rear Output Terminals
- Voltage Boost Interface (for Fluke 5205A)
- Current Boost Interface (for Fluke 5220A)
- Divided Output
- External Sense with HZs™
- Rear-panel calibration lockout switch

Standard Instrument Features

- Internal Calibration
- External Calibration
- Self-Diagnostics
- IEEE-488 Interface Address Selection
- RS-232-C Baud Rate Selection
- Voltage and Current Output Limits
- UUT Specifications and Error Display
- Boost Mode Operation
- Calibration Results Listing
- Internal Calibration Constants Listing

Highlighted Specifications

- Outputs to $\pm 1100V$
- Basic Uncertainty: 4 ppm
- Short Term Stability: < 1 ppm 24 hr.
- Linearity: ± 0.5 ppm
- Full Accuracy at $23^{\circ}C \pm 5^{\circ}C$
- Current Sourcing Capability: 25 mA
- Resolution: 0.1 ppm
- Full Autoranging

Internal Microprocessors

- Two Z80A Microprocessors
- Motorola MC6801

Documentation Contents

- 5440A Operator Manual
- 5440A Service Manual
- 5440A Remote Reference Card

Warranty

- 1 Year

Related Documentation

- Fluke 5440A Specifications A0171
- Fluke Technical Data B0152: Calibration Dialog
- Fluke 732A/752A Specifications A0172

Accessories

- 5440A-7001 Additional Procedure Storage Module
- 5440A-7003 External Calibration Spade Lug Cables
- Y8022 2m IEEE-488 Compatible Cable (Shielded)
- M00-280-610 24" Rack Slides
- M08-205-600 8 3/4" Rack Adapter

732A DC Reference Standard

Highlights

- 30-day Stability: 0.5 ppm
- Outputs: 10V, 1.018V, and 1V
- Battery Backup
- Transportable

752A Reference Divider Highlights

- < 0.2 ppm Ratio Uncertainty @ 10:1
- < 0.5 ppm Ratio Uncertainty @ 100:1
- Straight forward User Calibration

5205A Precision Power Amplifier Highlights

- Increases Current Sourcing to 100 mA, Voltage to 1500V
- Controlled from 5440A
- Requires Fluke Y5001 Cable

5220A Transconductance Amplifier Highlights

- Current Output Capability: 2A to 20A
- Controlled from 5440A
- Requires Fluke Y5002 Cable

1776B Printer Highlights

- Lists Results and Constants
- Connects to RS-232-C Output (requires Fluke Y1707 cable and male-to-male RS-232-C adapter)

1780A Infotouch Display

- Displays Results and Constants
- Connects to RS-232-C Output (requires Fluke Y1707 cable)



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