

FLUKE

5720A

The Fluke 5720A is a multifunction precision calibrator designed to address the most demanding electrical calibration workload. Serving as a world-class calibration standard, it sources direct and alternating voltage, current, and resistance with uncertainty specifications engineered to support the calibration of high-accuracy digital multimeters up to 8.5 digits. The system features innovative Artifact Calibration to simplify maintenance and support, requiring only three external standards to align all ranges and functions. Its performance can be expanded with the optional 5725A boost amplifier.

SPECIFICATIONS

Physical

Operating Temperature	0 °C to 50 °C °C
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DC Voltage Output

DC Voltage Range	0 to ±1100 V
DC Voltage Ranges	220 mV, 2.2 V, 22 V, 220 V, 1100 V
Output Resistance (220 mV range)	50 Ω

AC Voltage Output

AC Voltage Range	220 μV to 1100 V
AC Voltage Ranges	2.2 mV, 22 mV, 220 mV, 2.2 V, 22 V, 220 V, 1100 V
AC Voltage Frequency Range	10 Hz to 1 MHz
AC Voltage Maximum Load Current (2.2 V to 22 V ranges)	50 mA RMS

DC Current Output

DC Current Range	0 to ±2.2 A (11 A with 5725A)
DC Current Ranges	220 μA, 2.2 mA, 22 mA, 220 mA, 2.2 A

AC Current Output

AC Current Range	9 μA to 2.2 A (11 A with 5725A)
AC Current Ranges	220 μA, 2.2 mA, 22 mA, 220 mA, 2.2 A
AC Current Frequency Range	10 Hz to 10 kHz

Resistance Standards

Decade Resistance Range	1 Ω to 100 MΩ
Decade Resistance Values	1 Ω, 1.9 Ω, 10 Ω, 19 Ω, 100 Ω, 190 Ω, 1 kΩ, 1.9 kΩ, 10 kΩ, 19 kΩ, 100 kΩ, 190 kΩ, 1 MΩ, 1.9 MΩ, 10 MΩ, 19 MΩ, 100 MΩ
Resistance Connection Configurations	2-Wire or 4-Wire (selectable)

Wideband AC Voltage (Optional)

Wideband Voltage Range (Option 5700A-03)	300 μ V to 3.5 V (into 50 Ω)
Wideband Frequency Range (Option 5700A-03)	10 Hz to 30 MHz
Wideband Output Impedance	50 Ω

Reference and Calibration Features

Artifact Calibration External Standards	Requires 10 V DC Reference (e.g. Fluke 732B), 1 Ω Resistance Standard, and 10 k Ω Resistance Standard
Internal Reference Self-Check	Checks performance against internal standards and prints or downloads results
Confidence Level Formats	95% and 99% selectable via front panel SPEC key

Connectivity and System Control

Auxiliary Amplifier Control Interface	Compatible with Fluke 5725A, 5205A, and 5215A
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Power Requirements

Line Frequency	47 Hz to 63 Hz
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System Integration

Compatible Auxiliary Amplifier	Fluke 5725A
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TECHNOLOGY

Multifunction Calibrator

APPLICATIONS

Electrical Metrology & Calibration Laboratories

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