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Data Sheet

August 14, 2026

FLUKE

Fluke 792A AC/DC Transfer Standard with 792A Power Pack

The Fluke 792A is an ultra-high-accuracy AC/DC thermal transfer standard using Fluke solid-state RMS sensors for standards-lab AC calibration. Official Fluke Calibration datasheet 1260093 lists voltage coverage from 2 mV to 1000 V, frequency from 10 Hz to 1 MHz, total uncertainties as low as 10 ppm (optionally 5 ppm from Fluke Primary Standards), about 2 V full-scale output for DMM readout, and settling times of 30 to 60 seconds by range. Calibration of high-accuracy AC calibrators and voltmeters, AC/DC difference transfers to national standards, support of Fluke 5700A/5790A class workloads, and standards-lab AC measurement chain maintenance. Battery Life High Ranges Typical: 72 hours Battery Charge Time Typical: 16 hours to full charge DC Reversal Error High Ranges: 10 ppm class From Fluke Calibration 792A AC/DC Transfer Standard technical data 1260093g. Absolute and relative uncertainty matrices are range and frequency dependent; use the unit calibration report correction table for authoritative ppm values.



MODEL

Fluke 792A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

792A

LISTING

<https://aumictechlabs.com/products/792a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 792A AC/DC Transfer Standard with 792A Power Pack is a precision thermal transfer instrument engineered for ultra-high-accuracy AC/DC voltage and current measurements in

primary calibration laboratories. It establishes traceability between AC measurements and DC standards using a patented Solid-State Thermal RMS sensor and thin-film range resistors, achieving total uncertainties as low as ± 10 ppm (± 5 ppm optional from Fluke's Primary Standards Lab) traceable to NIST. Technical Specifications Measurement Range & Accuracy Voltage: 2 mV to 1000 V (with external 1000 V range resistor); internal ranges to 220 V Frequency: 10 Hz to 1 MHz Volt-Hertz product maximum: 10×10^6 V·Hz Total uncertainty: ± 10 ppm (standard), ± 5 ppm (optional primary lab grade) AC/DC reversal error: as low as 10 ppm relative to input voltage Thermal RMS Sensor The patented Solid-State Thermal Voltage Converter (TVC) delivers 2 V nominal full-scale output with excellent signal-to-noise characteristics and minimal thermal mass. Stabilization occurs in approximately 30 seconds; system warm-up requires 15 minutes after 12-hour environmental stabilization. Range Resistors Thin-film construction with low temperature coefficient, rapid stabilization, and minimal AC/DC differences. The 1000 V range resistor is isolated externally to eliminate heat generation at elevated voltages. Key Features Output: 2 V full-scale DC, compatible with high-resolution digital multimeters Input connector: Stainless Steel Type-N (rear panel) Output binding posts: HI, LO, GUARD, GROUND (front panel) Overload protection: Visual and audible alerts; electronically protected Current limitation requirement: sources must be current-limited to 200 mA maximum NIST traceability with correction factor tables and uncertainty documentation Typical Applications Primary AC voltage and current calibration AC/DC transfer standard operations in national metrology institutes Multi-frequency AC measurement verification (10 Hz to 1 MHz) High-accuracy voltage reference establishment across broad measurement ranges Compatibility & Integration The 792A Power Pack supplies the instrument. Type-N input connectors enable integration with precision signal sources. Output via binding posts allows direct connection to precision digital multimeters or data acquisition systems.

792A Characteristics / Specifications

PARAMETER	VALUE
Voltage Range Coverage	2 mV to 1000 V
Frequency Range	10 Hz to 1 MHz
Total Uncertainty Class	as low as plus or minus 10 ppm
Full Scale Output Class	approximately 2 V
Output Impedance	less than 30 milliohms
Output Current Drive	up to 20 mA
Settling Time 22 mV to 700 mV Ranges	60 s
Settling Time 2.2 V to 1000 V Ranges	30 s
Warm Up Time After Stabilization	15 minutes
Temperature Stabilization Time	12 hours in environment of use
Operating Temperature	11 C to 35 C
Calibration Temperature	18 C to 28 C
Storage Temperature	minus 40 C to 50 C
Volt Hertz Product At 100 kHz	1e8
Volt Hertz Product At 1 MHz	2.2e7
Waveform Requirement	sinusoidal distortion less than 1 percent
Transfer Unit Size HxWxD	17.8 cm x 21.6 cm x 30.5 cm
Transfer Unit Weight	8.4 kg
Power Pack Weight	8.9 kg
Line Power	100 120 220 240 V selectable 50 to 60 Hz
Maximum Power	45 VA
Battery Life High Ranges Typical	72 hours
Battery Charge Time Typical	16 hours to full charge
DC Reversal Error High Ranges	10 ppm class
Input Impedance Low Ranges	10 Mohm

792A Specifications

PARAMETER	VALUE
Fluke 792A AC DC Transfer Standard	Overview
Key Features	Solid-state RMS sensor with about 2 V output
Fast settling versus traditional thermocouples	Wide 11 C to 35 C operating window
Technical Specifications	Voltage Range Coverage: 2 mV to 1000 V

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to 50 C
Operating temperature	11 C to 35 C
Operating Temperature	11 C to 35 C
Calibration Temperature	18 C to 28 C
Volt Hertz Product At 100 kHz	1e8
Volt Hertz Product At 1 MHz	2.2e7
Waveform Requirement	sinusoidal distortion less than 1 percent
Transfer Unit Size HxWxD	17.8 cm x 21.6 cm x 30.5 cm
Transfer Unit Weight	8.4 kg
Power Pack Weight	8.9 kg
Line Power	100 120 220 240 V selectable 50 to 60 Hz
Maximum Power	45 VA
Battery Life High Ranges Typical	72 hours
Battery Charge Time Typical	16 hours to full charge
DC Reversal Error High Ranges	10 ppm class
Input Impedance Low Ranges	10 Mohm Notes From Fluke Calibration 792A AC/DC Transfer Standard technical data 1260093g. Absolute and relative uncertainty matrices are range and frequency dependent; use the unit calibration report correction table for authoritative ppm values.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Voltage Range Coverage	2 mV to 1000 V
Frequency Range	10 Hz to 1 MHz
Total Uncertainty Class	as low as plus or minus 10 ppm
Optional Primary Lab Uncertainty Class: as low as plus or minus 5 ppm	
Specifications	
PARAMETER	VALUE
Full Scale Output Class	approximately 2 V
Output Impedance	less than 30 milliohms
Output Current Drive	up to 20 mA
Settling Time 22 mV to 700 mV Ranges: 60 s	
Settling Time 2.2 V to 1000 V Ranges: 30 s	
Specifications	
PARAMETER	VALUE
Warm Up Time After Stabilization	15 minutes
Temperature Stabilization Time	12 hours in environment of use
Operating Temperature	11 C to 35 C
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Volt Hertz Product At 100 kHz	1e8
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Maximum Power	45 VA
Battery Life High Ranges Typical	72 hours
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DC Reversal Error High Ranges	10 ppm class
Input Impedance Low Ranges	10 Mohm

Notes
From Fluke Calibration 792A AC/DC Transfer Standard technical data 1260093g. Absolute and relative uncertainty matrices are range and frequency dependent; use the unit calibration report correction table for authoritative ppm values.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.