

FLUKE®

Fluke 8808A Digital Multimeter Extended Specifications

Making measurements is as simple as pushing a button

The Fluke 8808A 5.5 digit multimeter has a broad range of functions, measuring volts, ohms and amps with a basic V dc accuracy of 0.01 %. It is remarkably easy to use, even by unskilled operators, because it makes the measurements you perform most often extremely easy and fast to do.

Six setup buttons on the 8808A front panel operate like a car radio's station presets. Simply set up the meter for a common measurement, then press shift followed by a setup button (S1 to S6) to save the setup. Now each time you perform that measurement, you simply press the appropriate setup key. It's that easy!

The setup buttons eliminate the need to follow complex work instruction sheets. Operators no longer need to press multiple buttons to set up a measurement function and range, test limits, or enter other parameters to make a measurement.

Eliminate production mistakes

The Fluke 8808A 5.5 digit multimeter dependably performs the most common measurements required by today's applications.



Features at a glance

- 5.5 digit resolution
- Basic V dc accuracy of 0.01 %
- Dual display
- Dedicated dc leakage current measurement
- 2x4 ohms 4-wire measurement technique
- Six dedicated buttons for fast access to instrument setups
- Hi.Lo limit compare for Pass/Fail testing
- Fluke 45 remote command emulation

Whether you are performing functional tests or making critical measurements on test points, using the limit compare mode with pass/fail indicators eliminates production mistakes, especially those where results are "on the edge."

The 8808A display has built-in enunciators that clearly show the operator whether a test passes or fails. The pass/fail indicators take the guesswork out of testing: the result is either within limits or it's out.

General Specifications

Voltage

100V Setting	90 V to 110 V
120V Setting	108 V to 132 V
220V Setting	198 V to 242 V
240V Setting	216 V to 264 V
Frequency	47 Hz to 440 Hz
Power Consumption	15 VA peak (10 W average)

Dimensions

Height	88 mm (3.46 in)
Width	217 mm (8.56 in)
Depth	297 mm (11.7 in)
Weight	2.1 kg (4.6 lb)

Display

Vacuum Fluorescent Display, segment

Environment

Temperature

Operating	0 °C to 50 °C
Storage	-40 °C to 70 °C
Warm Up	½ hour to full uncertainty specifications

Relative Humidity (non-condensing)

Operating	Uncontrolled (< 10°C)
	<90 % (10 °C to 28 °C)
	<75 % (28 °C to 40 °C)
	<45 % (40 °C to 50 °C)
Storage	-40 °C to 70 °C <95 %

Altitude

Operating	2,000 Meters
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Storage

Storage	12,000 Meters
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Vibration

Vibration	Complies with MIL-PRF-28800F Class 3
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Safety

Complies with IEC 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA C22.2 No. 61010.1:2004, CAT I 1000V/CAT II 600 V

EMC

Designed to comply with IEC 61326-1:1997+A1:1998+A2:2000

Triggering

Trigger Delay	400 ms
External Trigger Delay	<2 ms
External Trigger Jitter	<1 ms
Trigger Input	TTL Levels
Trigger Output	5 V max

Math Functions

Min/max, relative, hold, compare and dB functions

Electrical

Input Protection	1000 V all ranges
Overrange	10 % on the largest ranges of all functions except continuity and diode test

Remote Interfaces

RS-232C

Warranty

One year

Electrical Specifications

Specifications are valid for 5-½ digit mode and after at least a half-hour warm-up.

DC Voltage Specifications

Maximum Input	1000 V on any range
Common Mode Rejection	120 dB at 50 or 60 Hz ±0.1% (1 kΩ unbalance)
Normal Mode Rejection	80 dB at Slow Rate
A/D Nonlinearity	15 ppm of range
Input Bias Current	<30 pA at 25 °C
Settling Considerations	Measurement settling times are affected by source impedance, cable dielectric characteristics, and input signal changes

Input Characteristics

Range	Full-Scale (5-1/2 Digits)	Resolution			Input Impedance
		Slow	Medium	Fast	
200 mV	199.999 mV	1 µV	10 µV	10 µV	>10 GΩ ^[1]
2 V	1.99999 V	10 µV	100 µV	100 µV	>10 GΩ ^[1]
20 V	19.9999 V	100 µV	1000 µV	1000 µV	10 MΩ±1 %
200 V	199.999 V	1 mV	10 mV	10 mV	10 MΩ±1 %
1000 V	1000.00 V	10 mV	100 mV	100 mV	10 MΩ±1 %
Notes:					
[1] At some dual display measurements, the input impedance of 200 mV and 2 V ranges may be changed to 10 MΩ.					

Range	Uncertainty ^[1]		Temperature Coefficient/°C Outside 18 – 28 °C
	90 days	1 year	
	23 °C ± 5 °C	23 °C ± 5°C	
200 mV	0.01 + 0.003	0.015 + 0.004	0.0015 + 0.0005
2 V	0.01 + 0.002	0.015 + 0.003	0.001 + 0.0005
20 V	0.01 + 0.003	0.015 + 0.004	0.0020 + 0.0005
200 V	0.01 + 0.002	0.015 + 0.003	0.0015 + 0.0005
1000 V	0.01 + 0.002	0.015 + 0.003	0.0015 + 0.0005
Notes:			
[1] Uncertainty given as ± (% of reading + % of range)			

AC Voltage Specifications

AC Voltage specifications are for ac sinewave signals >5 % of range. For inputs from 1 % to 5 % of range and <50 kHz, add an additional error of 0.1 % of range, and for 50 kHz to 100 kHz, add 0.13 % of range.

Maximum Input	750 V rms or 1000 V peak or 8×10^7 Volts-Hertz product
Measurement Method	AC-coupled true-rms. Measures the ac component of input with up to 1000 V dc bias on any range.
AC Filter Bandwidth	20 Hz – 100 kHz
Common Mode Rejection	60 dB at 50 Hz or 60 Hz (1 k Ω unbalance)
Maximum Crest Factor	3:1 at Full Scale
Additional Crest Factor Errors (<100 Hz)	Crest Factor 1-2, 0.05 % of full scale Crest Factor 2-3, 0.2 % of full scale
Only applies for non-sinusoid signals	

Input Characteristics

Range	Full-Scale (5-1/2 Digits)	Resolution			Input Impedance
		Slow	Medium	Fast	
200 mV	199.999 mV	1 μ V	10 μ V	10 μ V	1 M Ω $\pm$ 2 % shunted by <100 pF
2 V	1.99999 V	10 μ V	100 μ V	100 μ V	
20 V	19.9999 V	100 μ V	1000 μ V	1000 μ V	
200 V	199.999 V	1 mV	10 mV	10 mV	
750 V	750.00 V	10 mV	100 mV	100 mV	

Range	Frequency	Uncertainty ^[1]		Temperature Coefficient/°C Outside 18 – 28 °C
		90 days	1 year	
		23 °C $\pm$ 5 °C	23 °C $\pm$ 5 °C	
200 mV	20 Hz – 45Hz	0.8 + 0.05	0.9 + 0.05	0.01 + 0.005
	45 Hz – 20 kHz	0.15 + 0.05	0.2 + 0.05	0.01 + 0.005
	20 kHz – 50 kHz	0.3 + 0.05	0.35 + 0.05	0.01 + 0.005
	50 kHz – 100 kHz	0.8 + 0.05	0.9 + 0.05	0.05 + 0.01
2 V	20 Hz – 45Hz	0.8 + 0.05	0.9 + 0.05	0.01 + 0.005
	45 Hz – 20 kHz	0.15 + 0.05	0.2 + 0.05	0.01 + 0.005
	20 kHz – 50 kHz	0.3 + 0.05	0.35 + 0.05	0.01 + 0.005
	50 kHz – 100 kHz	0.8 + 0.05	0.9 + 0.05	0.05 + 0.01
20 V	20 Hz – 45 Hz	0.8 + 0.05	0.9 + 0.05	0.01 + 0.005
	45 Hz – 20 kHz	0.15 + 0.05	0.2 + 0.05	0.01 + 0.005
	20 kHz – 50 kHz	0.3 + 0.05	0.35 + 0.05	0.01 + 0.005
	50 kHz – 100 kHz	0.8 + 0.05	0.9 + 0.05	0.05 + 0.01
200 V	20 Hz – 45Hz	0.8 + 0.05	0.9 + 0.05	0.01 + 0.005
	45 Hz – 20 kHz	0.15 + 0.05	0.2 + 0.05	0.01 + 0.005
	20 kHz – 50 kHz	0.3 + 0.05	0.35 + 0.05	0.01 + 0.005
	50 kHz – 100 kHz	0.8 + 0.05	0.9 + 0.05	0.05 + 0.01
750 V	20 Hz – 45Hz	0.8 + 0.05	0.9 + 0.05	0.01 + 0.005
	45 Hz – 20 kHz	0.15 + 0.05	0.2 + 0.05	0.01 + 0.005
	20 kHz – 50 kHz	0.3 + 0.05	0.35 + 0.05	0.01 + 0.005
	50 kHz – 100 kHz	0.8 + 0.05	0.9 + 0.05	0.05 + 0.01
Notes:				
[1] Uncertainty given as $\pm$ (% of reading + % of range)				

Resistance

Specifications are for 4-wire resistance function, or 2-wire resistance with REL. If REL is not used, add 0.2 Ω for 2-wire resistance plus lead resistance.

Measurement Method Current source referenced to L0 input

Max Lead Resistance (4-wire ohms) 10 % of range per lead for 200 Ω , 2 k Ω ranges. 1 k Ω per lead on all other ranges.

Input Protection 1000 V on all ranges

Input Characteristics

Range	Full-Scale (5-1/2 Digits)	Resolution			Current Source
		Slow	Medium	Fast	
200 Ω	199.999 Ω	0.001 Ω	0.01 Ω	0.01 Ω	0.8 mA
2 k Ω	1.99999 k Ω	0.01 Ω	0.1 Ω	0.1 Ω	0.8 mA
20 k Ω	19.9999 k Ω	0.1 Ω	1 Ω	1 Ω	0.08 mA
200 k Ω	199.999 k Ω	1 Ω	10 Ω	10 Ω	0.008 mA
2 M Ω	1.99999 M Ω	10 Ω	100 Ω	100 Ω	0.9 μ A
20 M Ω	19.9999 M Ω	100 Ω	1 k Ω	1 k Ω	0.16 μ A
100 M Ω	100.000 M Ω	1 k Ω	10 k Ω	10 k Ω	0.16 μ A 10 M Ω

Range	Uncertainty ^[1]		Temperature Coefficient/°C Outside 18 – 28 °C
	90 days	1 year	
	23 °C ± 5 °C	23 °C ± 5 °C	
200 Ω	0.02 + 0.004	0.03 + 0.004	0.003 + 0.0006
2 k Ω	0.015 + 0.002	0.02 + 0.003	0.003 + 0.0005
20 k Ω	0.015 + 0.002	0.02 + 0.003	0.003 + 0.0005
200 k Ω	0.015 + 0.002	0.02 + 0.003	0.003 + 0.0005
2 M Ω	0.03 + 0.003	0.04 + 0.004	0.004 + 0.0005
20 M Ω	0.2 + 0.003	0.25 + 0.003	0.01 + 0.0005
100 M Ω	1.5 + 0.004	1.75 + 0.004	0.2 + 0.0005
Notes:			
[1] Uncertainty given as ± (% of reading + % of range)			

DC Current

Input Protection Tool accessible 11 A / 1000 V and 440 mA / 1000 V fuses.

Shunt Resistance 0.01 Ω for 2 A and 10 A ranges

1 Ω for 20 mA and 200 mA

Burden voltage < 5 mV for 200 μ A and 2 mA range.

Input Characteristics

Range	Full-Scale (5-1/2 Digits)	Resolution			Burden Voltage
		Slow	Medium	Fast	
200 μ A	199.999 μ A	0.001 μ A	0.01 μ A	0.01 μ A	<5 mV
2 mA	1999.99 μ A	0.01 μ A	0.1 μ A	0.1 μ A	<5 mV
20 mA	19.9999 mA	0.1 μ A	1 μ A	1 μ A	<0.05 V
200 mA	199.999 mA	1 μ A	10 μ A	10 μ A	<0.5 V
2 A	1.99999 A	10 μ A	100 μ A	100 μ A	<0.1 V
10 A	10.0000 A	100 μ A	1 mA	1 mA	<0.5 V

Range	Uncertainty ^[1]		Temperature Coefficient/°C Outside 18 – 28 °C
	90 days	1 year	
	23 °C ± 5 °C	23 °C ± 5 °C	
200 µA	0.02 + 0.005	0.03 + 0.005	0.003 + 0.001
2 mA	0.015 + 0.005	0.02 + 0.005	0.002 + 0.001
20 mA	0.03 + 0.02	0.04 + 0.02	0.005 + 0.001
200 mA	0.02 + 0.005	0.03 + 0.008	0.005 + 0.001
2 A	0.05 + 0.02	0.08 + 0.02	0.008 + 0.001
10 A	0.18 + 0.01	0.2 + 0.01	0.008 + 0.001
Notes:			
[1] Uncertainty given as ± (% of reading + % of range)			

AC Current

The following ac current specifications are for sinusoidal signals with amplitudes greater than 5 % of range. For inputs from 1 % to 5 % of range, add an additional error of 0.1 % of range.

Input Protection Tool accessible 11 A / 1000 V and 440 mA / 1000 V fuses

Measurement Method AC-coupled True RMS

Shunt Resistance 0.01 Ω for 2 A and 10 A ranges

1 Ω for 20 mA and 200 mA

AC Filter Bandwidth 20 Hz – 100 kHz

Maximum Crest Factor 3:1 at Full Scale

Additional Crest Factor Errors (<100 Hz) Crest Factor 1-2, 0.05 % of full scale

Crest Factor 2-3, 0.2 % of full scale

Only applies to non-sinusoid signals

Input Characteristics

Range	Full-Scale (5-1/2 Digits)	Resolution			Burden Voltage
		Slow	Medium	Fast	
20 mA	19.9999 mA	0.1 µA	1 µA	1 µA	<0.05 V
200 mA	199.999 mA	1 µA	10 µA	10 µA	<0.5 V
2 A	1.99999 A	10 µA	100 µA	100 µA	<0.1 V
10 A	10.0000 A	100 µA	1 mA	1 mA	<0.5 V

Range	Frequency	Uncertainty ^[1]		Temperature Coefficient/°C Outside 18 – 28 °C
		90 days	1 year	
		23 °C ± 5 °C	23 °C ± 5 °C	
20 mA	20 Hz - 45Hz	1 + 0.05	1.25 + 0.06	0.015 + 0.005
	45 Hz - 2 kHz	0.25 + 0.05	0.3 + 0.06	0.015 + 0.005
200 mA	20 Hz - 45Hz	0.8 + 0.05	1 + 0.06	0.015 + 0.005
	45 Hz - 2 kHz	0.25 + 0.05	0.3 + 0.06	0.015 + 0.005
2 A	20 Hz - 45Hz	1 + 0.05	1.25 + 0.06	0.015 + 0.005
	45 Hz - 2 kHz	0.25 + 0.05	0.3 + 0.06	0.015 + 0.005
10 A	20 Hz - 45Hz	1 + 0.1	1.25 + 0.12	0.015 + 0.005
	45 Hz - 2 kHz	0.35 + 0.1	0.5 + 0.12	0.015 + 0.005
Notes:				
[1] Uncertainty given as ± (% of reading + % of range)				

Frequency

Gate Time 131 ms
Measurement Method AC-coupled input using the ac voltage measurement function.
Settling Considerations When measuring frequency after a dc offset voltage change, errors may occur. For the most accurate measurement, wait up to 1 second to allow input blocking RC time constant to settle.
Measurement Considerations To minimize measurement errors, shield inputs from external noise when measuring low voltage, low frequency signals.

Range	Frequency	Uncertainty		Temperature Coefficient/°C Outside 18 – 28 °C
		90 days	1 year	
		23 °C ± 5 °C	23 °C ± 5 °C	
100 mV to 750 V ^[1,2]	20 Hz – 2 kHz	0.01 + 0.002	0.01 + 0.003	0.002 + 0.001
	2 kHz – 20 kHz	0.01 + 0.002	0.01 + 0.003	0.002 + 0.001
	20 kHz – 200 kHz	0.01 + 0.002	0.01 + 0.003	0.002 + 0.001
	200 kHz – 1 MHz	0.01 + 0.004	0.01 + 0.006	0.002 + 0.002
Notes: [1] Input > 100 mV [2] Limited to 8* 10 ⁷ V Hz				

Continuity

Continuity Threshold 20 Ω
Test Currents 1 mA
Response Time 100 samples/sec with audible tone
Rate Fast
Maximum Reading 199.99 Ω
Resolution 0.01 Ω

Diode Test

Response Time 100 samples/sec with audible tone
Rate Fast
Maximum Reading 1.9999 V
Resolution 0.1 mV

Ordering information

Models	Description
8808A 120V	5.5 Digit Multimeter
8808A 220V	5.5 Digit Multimeter
8808A 100V	5.5 Digit Multimeter
8808A 240V	5.5 Digit Multimeter

8808A/SU includes

8808A package plus, FlukeView Forms basic software, USB to RS-232 interface adapter cable.

8808A/SU 120V	5.5 Digit Multimeter, SW USB Cable Kit
8808A/SU 220V	5.5 Digit Multimeter, SW USB Cable Kit
8808A/SU 100V	5.5 Digit Multimeter, SW USB Cable Kit
8808A/SU 240V	5.5 Digit Multimeter, SW USB Cable Kit

8808A includes

Meter, TL71 test leads, line cord, spare line fuse, statement of cal practices, WEEE information sheet, Warranty statement, Getting Started guide (English, French, German, Spanish, Italian, Simplified Chinese, Japanese), CD Rom with user manual (English).

Fluke. *Keeping your world
up and running.®*

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DOMINION



**CARTA DE DISTRIBUIDOR AUTORIZADO
FLUKE y AMPROBE**



FLUKE®

Ciudad de México, Enero 2023.

A quien corresponda:

Por medio del presente, Mexicana de Electrónica Industrial. S.A. de C.V., conocida como **Dominion México** y Master Distributor exclusivo de la marca **Fluke y Amprobe** en México, informa que la compañía **AG ELECTRONICA SAPI DE CV** es nuestro **Distribuidor Autorizado** de las herramientas de medición marca **Fluke, Amprobe, PLS y Comark** durante el 2023.

Las herramientas de la marca Fluke, que Mexicana de Electrónica Industrial S.A. de C.V. surte a **AG ELECTRONICA SAPI DE CV** cuentan con las **Garantías Originales de Fluke en México**, así como con la mejor capacitación y el mejor soporte técnico que proporcionamos en México.

Por cualquier aclaración o apoyo necesario relacionado con el anterior, quedamos a sus órdenes.

Teniendo validez al 31 de diciembre de 2023, extensiva a renovación.

Atentamente:

ADMINISTRACIÓN DEL PORTAFOLIO



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**FLUKE®**

Estimado **Usuario Fluke**.

Mexicana De Electrónica Industrial SA de CV (parte del corporativo Dominion Global) somos el **único Master Distribuidor de la marca Fluke en México**.

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Si no reside en México, por favor diríjase al representante autorizado que corresponde a su país, o bien ingrese a la página <https://www.distribuidoresfluke.mx/proteja-su-compra/>

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