

Handheld multimeter

SEFRAM7208

SEFRAM7208: Professional performance in your pocket.



KEY FUNCTIONS

- Compact size
- Non-contact voltage detection
- AC and DC voltages
- Resistance
- Continuity and diode test
- Built-in flashlight
- Backlit display
- 3 measurements per second
- IEC 61010 CAT III 600 V

FEATURES

- **Display:** 6000 counts
- **AC and DC voltage:** Up to 600 V
- **Resistance:** Up to 20 MΩ
- **Diode test:** Forward voltage drop display
- **Continuity test:** With buzzer
- **Screen:** 3 ½ digit LCD with polarity and low battery indicator

The SEFRAM7208 combines the compactness of a pocket multimeter with the performance of a professional device. Ideal for technicians, electricians, and installers, it provides accurate TRMS measurement up to 600 V AC, with surge protection across all measurement ranges.

Designed for reliable everyday use, it features a backlit LCD screen, LED lighting for dark areas, and non-contact voltage detection (NCV) for added safety.

Its sampling rate of 3 measurements/second ensures excellent responsiveness during field diagnostics.

This multimeter stands out for its portability, ease of use, and ruggedness, making it a tool that is perfectly suited for installation, maintenance, or troubleshooting work, even in demanding conditions.

Thanks to its integrated test leads, light weight, ergonomic design, and two AAA battery power supply, it is always ready to use and easy to transport.

APPLICATIONS



Electrician



Technician



Maintenance



HVAC

Overview



Specifications

Model	SEFRAM7208
DC voltage	
Measurement range	200 mV to 600 V (in 5 ranges)
Resolution	0.1 mV to 1 V (in 5 ranges)
Basic accuracy	± (0.8% of reading + 5 digits)
Input impedance	10 MΩ
Maximum input voltage	600 V DC or AC RMS
AC voltage	
Measurement range	2 V to 600 V (in 4 ranges)
Resolution	0.001 V to 1 V (in 4 ranges)
Basic accuracy	± (1.2 % of reading + 5 digits)
Input impedance	10 MΩ
Frequency	40 Hz to 1000 Hz
Maximum input voltage	600 V DC or AC RMS
Resistance	
Measurement range	200 Ω to 20 MΩ (in 6 ranges)
Resolution	0.1 Ω to 10 kΩ (in 6 ranges)
Basic accuracy	± (0.8 % + 3 digits)
Protection	600 V DC or AC RMS
Diode	
Range	2 V
Resolution	0.001 V
Test conditions	Open circuit voltage: 2.4 V The display shows the value of the forward voltage drop of the diode.

Model	SEFRAM7208
Continuity	
Description	The device emits an audible signal when the measured resistance value is less than 35 Ω.
Test conditions	Test current: approximately 1 mA Open circuit voltage: 2.4 V
General characteristics	
Display	LCD type, backlit 6000 counts
Measurement rate	3 measurements/s
Out-of-range indication	"OL" display
Polarity indication	The "-" symbol is automatically displayed
Operating temperature	0 °C to 40 °C, HR < 80 %
Storage temperature	-10°C to 60°C (without batteries), RH < 70%
Security	CAT III 600 V
Standards	IEC/EN 61010-1
Degree of pollution	2
Power supply	2 AAA batteries 1.5V
Dimensions	128 x 61 x 25 mm
Weight	200 g

Includes: User manual, 2 AAA batteries.



About SEFRAM INSTRUMENTS

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ISO 9001 : 2015
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SEFRAM7212 Autorange TRMS AC multimeter

The SEFRAM7212 is a compact digital multimeter with **advanced features**, designed to meet the needs of **electricians, heating engineers, and maintenance services**.

It is equipped with a large **backlit LCD screen** with a **bargraph**, providing clear visualization of measurements. It also has a built-in **flashlight** to facilitate measurements in dark environments. Furthermore, it is protected against overvoltages on all measurement ranges, ensuring the durability of the device in unstable electrical conditions.

With its current measurement capability in μA , the SEFRAM7212 will allow heating engineers to measure ionization current, that functionality is essential to diagnosing electrical problems in heating systems.

The multimeter includes the essential features such as **TRMS AC and DC voltage** measurement up to 600V.

The TRMS function is crucial in industrial maintenance applications as it allows for precise measurement of distorted signals. Additionally, for this application, there is the possibility to implement a **VFD filter** to eliminate unwanted harmonic components.

In summary, the SEFRAM7212 is an essential tool for electricians, heating engineers, and maintenance services, offering advanced functionality.

Key features :

- TRMS AC measurements
- Voltage measurement up to 600V AC/DC
- Currents measurement from μA up to 10A
- Frequency and capacitance measurement
- Resistance measurement up to 60Mohms
- Non-contact voltage detection
- Continuity test with buzzer
- TRMS measurement bandwidth up to 1kHz
- Dual LCD display with bargraph and backlighting
- Built-in flashlight
- HOLD, MIN/MAX, REL functions
- Safety: 600V CAT III

Ergonomic design

The SEFRAM7212 multimeter provides easy access to various menus and advanced features such as MIN/MAX, HOLD, and more. All basic measurements such as voltage (V), current (A), resistance (Ω), and continuity remain directly accessible via the rotary switch.

TRMS measurement and VFD filter

The SEFRAM7212 multimeter is equipped with the TRMS function and a VFD filter, allowing for precise measurements on installations with variable frequency drives (VFDs) or inverters.

The TRMS function is essential for voltage and current measurements as it considers the true and effective values of signals, even if they are distorted. This ensures accurate measurement, even in complex electrical conditions.

The VFD filter is particularly useful in industrial maintenance applications where VFDs and inverters are present. It eliminates undesirable harmonic components generated by these equipment, providing high-quality measurements.

A versatile device for all your applications

The SEFRAM7212 multimeter allows voltage measurements ranging from a few mV to 600V AC/DC (TRMS AC) with a bandwidth of up to 1kHz. The range switching is automatic. It enables current measurements from a few μA to 10A AC/DC.

It also features the NCV function, which allows for non-contact voltage detection either through the sensor located on top of the device or with a test lead connected to the device to increase detection sensitivity.

600V CAT III

TRMS AC



SEFRAM7212



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Aurorange TRMS AC multimeter

Specifications	SEFRAM7212
DC Voltages	
Ranges	60mV to 600V - 5 ranges
Basic accuracy	±(0,5% + 3dgt)
Resolution	10µV to 100mV
AC Voltages (TRMS)	
Ranges	60mV to 600V - 5 ranges
Resolution	10µV to 100mV
Basic accuracy	±(0,8% + 3dgt)
Bandwith	40Hz to 1kHz
DC Currents	
Ranges	600µA to 10A - 6 ranges
Basic accuracy	±(0,8% + 3dgt)
Resolution	0,1µA to 10mA
Protection	fuse 600mA input "mA" and fuse 10A input "A"
AC Currents (TRMS)	
Ranges	600µA to 10A - 6 ranges
Resolution	0,1µA to 10mA
Basic accuracy	±(1% + 5dgt)
Bandwith	40Hz to 1kHz
Protection	fuse 600mA input "mA" and fuse 10A input "A"
Frequency	
Ranges	10Hz to 10MHz - 7 ranges
Basic accuracy	±(1% + 5dgt)
Sensitivity	from 200mV
Protection	600V DC or AC RMS
Capacitance	
Ranges	10nF to 100mF
Resolution	0,01nF to 0,1mF
Basic accuracy	±(3% + 5dgt)
Protection	600V DC or AC RMS
Resistance	
Ranges	600Ω to 60MΩ - 6 ranges
Basic accuracy	±(1,2% + 5dgt)
Protection	600V DC or AC RMS
Continuity	
Diode	✓, with buzzer (30 ohms)
Functions	✓ MIN, MAX, REL, HOLD
General features	
Display	LCD with backlit 6000 counts with bargraph
Measurement rate	3 measurements/s
Out-of-range indication	"OL" display
Polarity indication	The "-" symbol is automatically displayed
Operating temperature	0°C to 40°C, HR < 80%
Storage temperature	-10°C to 60°C (without batteries), HR < 70%
Protection	fuse 600mA input "mA" and fuse 10A input "A"
Safety	600V CAT III EN: 61326
Standards	EN: 61010-1 EN: 61010-02-032 EN: 61010-02-033
Pollution degree	2
Power supply	2 x AAA 1.5V batteries
Automatic switch-off	after about 10mn
Low battery indication	The "battery" symbol is displayed
Dimension	166x78x64mm
Weight	268g

Supplied with : Instruction manual, Test leads (4mm), 2 x 1.5V AAA batteries, Carrying case.



Carrying case
supplied as standard

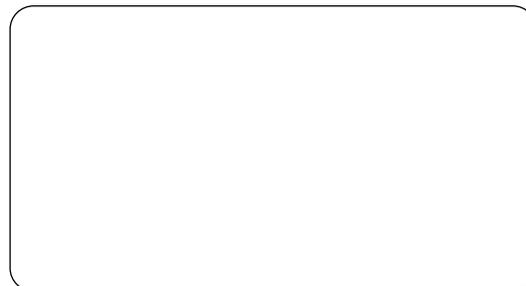
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For assistance and ordering



FT7212 EN 00 - Specifications can be updated without notice



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Industrial TRMS AC Multimeter

SEFRAM7214

SEFRAM7214: Dedicated for industry, reliability and performance without compromise.



KEY FUNCTIONS

- **TRMS measurements:** Optimal accuracy for voltages and currents, especially on non-sinusoidal signals
- **NCV (non-contact voltage) detection:** Sensor at the top of the device and LIVE mode via the test probe for more accurate voltage measurements
- **Display:** Backlit LCD / 6000 measurement counts
- **Integrated LED lighting:** For working in poorly lit or dark areas
- **Integrated test probe holder:** holds probes in place when taking measurements in electrical cabinets, for greater safety and ergonomics
- **Safety:** CAT III 1000 V / CAT IV 600 V

FEATURES

- **AC/DC voltage:** From a few mV up to 1000 V DC and 750 V AC
- **AC/DC current:** From a few μ A up to 10 A
- **Resistance:** Up to 60 M Ω
- **Capacitance:** Up to 100 mF
- **Frequency:** Up to 10 MHz
- **Duty cycle:** From 1% to 99%
- **Temperature:** Supports type K thermocouples
- **Diode and continuity test:** With built-in audible signal (buzzer)
- **AC bandwidth:** Up to 1 kHz

The **SEFRAM7214** is a TRMS digital multimeter designed for use in both commercial and industrial environments, offering great versatility and optimal safety thanks to its CAT IV 600 V rating.

It allows accurate measurements of voltage (up to 1000 V DC and 750 V AC), current (up to 10 A), resistance, capacitance, frequency, and temperature, all in a compact format.

Equipped with integrated LED lighting, the SEFRAM7214 is perfectly suited to low-light environments.

Its test lead attachment points facilitate measurements in electrical cabinets by holding the probes securely in place, for faster and safer work.

The NCV (non-contact voltage detection) sensor, located at the end of the device, makes it easy to detect the presence of voltage without direct contact.

For more accurate measurements, the LIVE function can be activated via the test probe, and the voltage level is then indicated both on the screen and by LED indicators.

The SEFRAM7214 combines reliability, compactness, and accuracy, making it an indispensable tool for all professionals looking for a robust, comprehensive, and accurate multimeter.

APPLICATIONS



Industry

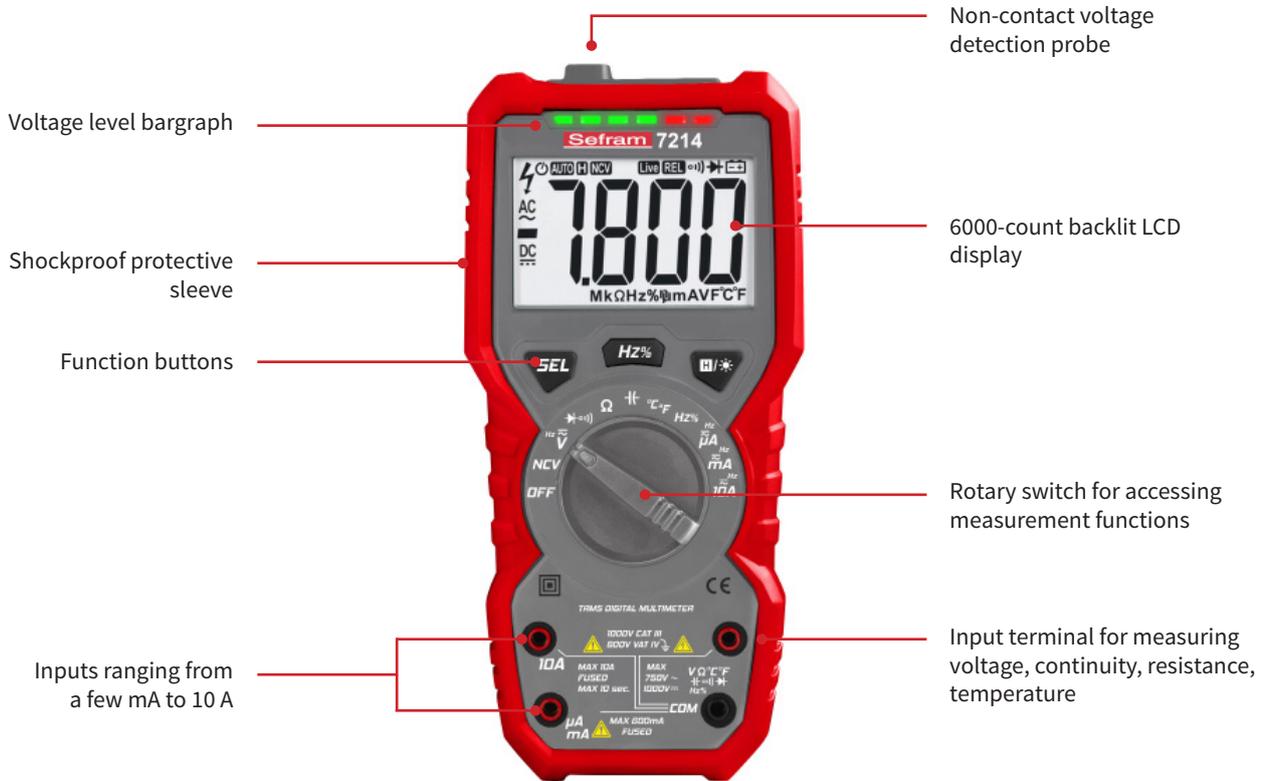


Automatism



Tertiary

Overview



Specifications

Model	SEFRAM7214
DC voltage	
Measurement range	600 mV to 1000 V (in 5 ranges)
Resolution	0.1 mV to 1V (in 5 ranges)
Basic accuracy	± (0.5 % of reading + 3 digits)
Input impedance	10 MΩ
Maximum input voltage	1000 V DC or 750 V AC RMS
AC voltage	
Measurement range	6 V to 750 V (in 4 ranges)
Resolution	1 mV to 1 V (in 4 ranges)
Basic accuracy	± (0.8 % of reading + 3 digits)
Input impedance	10 MΩ
Frequency	40 Hz to 1000 Hz TRMS
Maximum input voltage	1000 V DC or 750 V AC RMS
DC current	
Measurement range	60 μA to 10 A (in 6 ranges)
Resolution	0.01 μA to 10 mA (in 6 ranges)
Basic accuracy	±(0.8 % of reading + 3 digits)
Overload protection	Fuse for the mA measurement range: FF 600 mA / 1,000 V Fuse for the 10 A measurement range: FF 10 A / 1,000 V The fuse must be replaced if it blows
Maximum input current	mA position: 600 mA DC/AC 10 A position: 10 A DC/AC

Model	SEFRAM7214
AC current	
Measurement range	60 μA to 10 A (in 6 ranges)
Resolution	0.01 μA to 10 mA (in 6 ranges)
Basic accuracy	±(1 % of reading + 3 digits)
Overload protection	Fuse for the mA measurement range: FF 600 mA / 1,000 V Fuse for the 10 A measurement range: FF 10 A / 1,000 V The fuse must be replaced if it blows
Maximum input current	mA position: 600 mA DC/AC 10 A position: 10 A DC/AC
Frequency response	40 Hz to 1 kHz TRMS
Frequency	
Measurement range	9.999 Hz to 9.999 MHz (in 7 ranges)
Resolution	0.001 Hz to 0.001 MHz (in 7 ranges)
Basic accuracy	± (1 % of reading + 3 digits)
Protection	600V AC/DC
Resistance	
Measurement range	600 Ω to 60 MΩ (in 6 ranges)
Resolution	0.1 Ω to 10 kΩ (in 6 ranges)
Basic accuracy	± (0.8 % of the reading + 3 digits)
Protection	600 V DC or AC RMS
Open-circuit voltage	1 V

Specifications

Model	SEFRAM7214
Capacitance	
Measurement range	6 nF to 0.01 mF (in 8 ranges)
Resolution	0.001 nF to 0.1 mF (in 8 ranges)
Basic accuracy	±(4% of reading + 3 digits)
Protection	600 V DC or AC RMS
Temperature	
Measurement range	-20 °C to 1000 °C
Resolution	1 °C
Basic accuracy	±(1% of reading + 3 digits)
Diode	
Measurement range	0-3 V
Resolution	0.001 V
Test conditions	Direct current: approximately 1 mA; open circuit voltage: approximately 3.2 V. The display unit indicates the approximate value of the forward voltage drop across the diode.
Continuity	
Measurement range	600 Ω
Resolution	0.1 Ω
Description	The device emits an audible signal when the measured resistance value is less than 35 Ω.
Test conditions	Test current: approximately 1 mA Open circuit voltage: 2.4 V

Model	SEFRAM7214
General characteristics	
Display	LCD type, backlit
	6000 counts
Measurement rate	3 measurements/s
Out-of-range indication	"OL" display
Polarity indication	The "-" symbol is automatically displayed.
Operating temperature	0 °C to 40 °C, RH < 80%
Storage temperature	-10°C to 60°C (without batteries), RH < 70%
Temperature coefficient	0.1 × accuracy / °C (<18 °C or >28 °C). Maximum permissible voltage between the terminal to be measured and ground: 1000 V DC or 750 V AC.
Safety	CAT IV 600 V / CAT III 1000 V
Standards	IEC/EN 61010-1
Degree of pollution	2
Auto shut-off	After about 10 minutes
Low battery indicator	The "battery" symbol is displayed
Power supply	4 AA 1.5 V batteries
Dimensions	190 x 89 x 50 mm
Weight	380 g

Includes: Carrying case, manual, test leads, temperature probe, 4 AA batteries.



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