



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**.

He 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



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Specifications		SEFRAM7212
DC Voltages		
Ranges		60mV to 600V - 5 ranges
Basic accuracy		$\pm(0,5\% + 3\text{dgt})$
Resolution		10 μ V to 100mV
AC Voltages (TRMS)		
Ranges		60mV to 600V - 5 ranges
Resolution		10 μ V to 100mV
Basic accuracy		$\pm(0,8\% + 3\text{dgt})$
Bandwith		40Hz to 1kHz
DC Currents		
Ranges		600 μ A to 10A - 6 ranges
Basic accuracy		$\pm(0,8\% + 3\text{dgt})$
Resolution		0,1 μ A to 10mA
Protection		fuse 600mA input "mA" and fuse 10A input "A"
AC Currents (TRMS)		
Ranges		600 μ A to 10A - 6 ranges
Resolution		0,1 μ A to 10mA
Basic accuracy		$\pm(1\% + 5\text{dgt})$
Bandwith		40Hz to 1kHz
Protection		fuse 600mA input "mA" and fuse 10A input "A"
Frequency		
Ranges		10Hz to 10MHz - 7 ranges
Basic accuracy		$\pm(1\% + 5\text{dgt})$
Sensitivity		from 200mV
Protection		600V DC or AC RMS
Capacitance		
Ranges		10nF to 100mF
Resolution		0,01nF to 0,1mF
Basic accuracy		$\pm(3\% + 5\text{dgt})$
Protection		600V DC or AC RMS
Resistance		
Ranges		600 Ω to 60M Ω - 6 ranges
Basic accuracy		$\pm(1,2\% + 5\text{dgt})$
Protection		600V DC or AC RMS
Continuity		✓, with buzzer (30 ohms)
Diode		✓
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
		2
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

Sefram

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For assistance and ordering



FT7212 EN 00 - Specifications can be updated without notice



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