

SEFRAM 7220 - 7221 - 7223

TRMS AC Digital Multimeters 6000 counts, Bluetooth®

TRMS AC



600V CAT IV
1000V CAT III
Bluetooth®

Specifications:

- Voltage measurement up to 1000V TRMS AC and 1000V DC
- Measurement of voltages on photovoltaic panels up to 1500V AC and 2000V DC with the accessory SA163 (7223)
- Measurement of low impedance voltages (LoZ) (7220 - 7221)
- Current measurement up to 10A (7221 - 7223)
- Frequency and capacity measurement
- Resistance measurement up to 40 Mohms
- Continuity with buzzer
- Volt Sense function
- Bluetooth
- Temperature measurement with thermocouple type K (7223)
- Dual LCD display, with bargraph and backlight (7221 - 7223)
- Datalogger (7221 - 7223)
- Android App et iOS App: SEFRAM Connect (free)
- Safety: 600V CAT IV and 1000V CAT III

An ergonomic device

The multimeters SEFRAM 722X series have a simple and intuitive interface to access the various menus and advanced functions. All basic measurements (V, A Ω , ...) have direct access.

A built-in 4000 points datalogger

The SEFRAM 7221 and SEFRAM 7223 multimeters integrate a datalogger allowing the recording of 4000 values, with the possibility to configure the measurement rate. This function will be very useful for monitoring parameters.

A device dedicated to measurements on photovoltaic panels

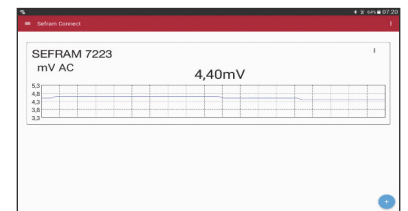
With the SEFRAM 7223 multimeter, you will have a voltage measurement function on photovoltaic panels. Using the optional accessory SA163 it's possible to safely measure voltages up to 1500V AC and 2000V DC.

A family of connected multimeters

With their Bluetooth interface and the SEFRAM Connect App dedicated to tablets and smartphones (Android or iOS), you can follow your measurements, download in real time, consult the memory, etc.



SA163



Sefram connect ios® and Android® software

Selection Guide

Function	SEFRAM 7220	SEFRAM 7221	SEFRAM 7223
VAC	✓	✓	✓
VDC	✓	✓	✓
mV DC	✓	✓	✓
Frequency	✓	✓	✓
Resistance	✓	✓	✓
Continuity	✓	✓	✓
Diode	✓	✓	✓
Capacitor	✓	✓	✓
Bluetooth®	✓	✓	✓
Volt Seek	✓	✓	✓
AutoV LoZ (Low Impedance)		✓	✓
Data Logger		✓	✓
HFR		✓	✓
Backlight		✓	✓
Bar Graph		✓	✓
AAC		✓	✓
ADC		✓	✓
Temperature			✓
PV Voltage with SA163 (option)			✓



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Specifications	SEFRAM 7220	SEFRAM 7221	SEFRAM 7223
DC Voltage			
Range		600mV to 1000V	
Accuracy		±(0.5% + 5D)	
Resolution		0.1mV to 1V	
Input Impedance		10MΩ	
Protection		1000V AC/DC	
AC Voltage (TRMS AC)			
Range		600mV to 1000V	
Accuracy		±(1.0% + 5D)	
Resolution		0.1mV to 1V	
Bandwidth		45 to 500Hz	
Input Impedance		10MΩ	
Protection		1000V AC/DC	
AutoV LoZ Voltage			
Range	600V to 1000V		-
Accuracy	±(2.0% + 3D)		-
Resolution	0.1V to 1V		-
Bandwidth	45 to 500Hz		-
Input Impedance	< 3kΩ		-
Protection	1000V AC/DC		-
PV DC Voltage with optional test leads SA163			
Range	-	-	600V to 2000V
Accuracy	-	-	±(2.0% + 5D)
Resolution	-	-	0.1V to 1V
Input Impedance	-	-	10MΩ
Protection	-	-	1000V AC/DC
PV AC Voltage with optional test leads SA163			
Range	-	-	600V to 1500V
Accuracy	-	-	±(2.0% + 5D)
Resolution	-	-	0.1V to 1V
Bandwidth	-	-	45 to 500Hz
Input Impedance	-	-	10MΩ
Protection	-	-	1000V AC/DC
DC Current			
Range	-		6A to 10A
Accuracy	-		±(1.0% + 3D)
Resolution	-		0.001A to 0.01A
Protection	-		Fusible AC/DC 11A
DC Current			
Range	-		6A to 10A
Accuracy	-		±(1.5% + 3D)
Resolution	-		0.001A to 0.01A
Bandwidth	-		45 to 500Hz
Protection	-		Fusible AC/DC 11A
Resistance			
Range		600Ω to 40MΩ	
Accuracy		±(0.9% + 5D)	
Protection		1000V AC/DC	
Continuity			
Range		600Ω	
Accuracy		±(0.9% + 5D)	
Protection		1000V AC/DC	
Buzzer		2KHz	
Response Time of Buzzer		< 500μsec	
Diode			
Range		1,5V	
Accuracy		±(0.9% + 2D)	
Protection		1000V AC/DC	
Open Circuit Voltage		Approx. 1.8V	
Capacitance			
Range		1μF à 10mF	
Accuracy		±(1.9% + 5D)	
Resolution		0.001μF à 0.01mF	
Protection		1000V AC/DC	



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Specifications	SEFRAM 7220	SEFRAM 7221	SEFRAM 7223
Frequency	100Hz to 100kHz		
Range	±(0.1% + 2D)		
Accuracy	1Hz to 10kHz : >5V		
Voltage Sensivity	10kHz to 50kHz : unspecified	10kHz to 50kHz : >5V	10kHz to 50kHz : >5V
	50kHz to 100kHz : unspecified	50kHz to 100kHz : >20V	50kHz to 100kHz : >20V
		>0.6A	
Current Sensivity	-	-	-
Température			
Range	-	-	-40°C to 400°C
Accuracy	-	-	±(1% + 20D)
Résolution	-	-	0.1°C
VoltSeek			
Voltage Range of High Sensitivity		80V to 1000V	
Voltage Range of Low Sensitivity		160V to 1000V	
General Specifications			
Display	6000 counts		
Measure	Samples 3 times per second		
Memory	-	4000 points	4000 points
Interface	Bluetooth® with Sefram Connect App		
Operating Temperature	-10°C to 50°C. according to hygrometry		
Storage Temperature	-20°C to 60°C. 0 to 80% HR (without batteries)		
Drop Protection	1 meter drop to hardwood on concrete floor		
Safety	CAT III 1000V, CAT IV 600V		
Power Requirement	AA 1.5V x 2 batteries		
Autonomy	Approx. 300 hours		
Dimensions (W x H x D)	74mm x 156mm x 44mm		
Weight	250g (including batteries)		
Warranty	1 year		

Supplied with: test leads, manual, thermocouple K (ST305) for the SEFRAM 7223, batteries.

Optional accessories:

SA163 : photovoltaic adapter



SC500 : Carrying bag



For assistance and ordering

Sefram

32, rue Edouard Martel - BP55- 42009 - St Etienne - cedex 2
 Tél. +33 (0) 4.77.59.01.01 / Fax. +33 (0) 4.77.57.23.23
 Web : www.sefram.fr - e-mail : sales@sefram.fr



FT722X EN00 - Specifications can be updated without notice



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