

## 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 and 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  $\Omega$ , ...) 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

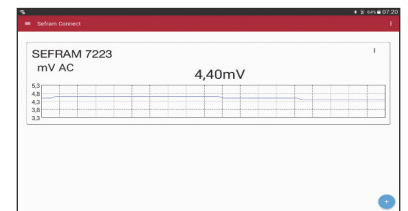
With the SEFRAM 7223 multimeter, you will have a voltage measurement function on photovoltaic panels. Using the optional accessory SA163 it's possible to safely measure voltages up to 1500V AC and 2000V DC.

#### 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
V AC	✓	✓	✓
V DC	✓	✓	✓
mV DC	✓	✓	✓
Frequency	✓	✓	✓
Resistance	✓	✓	✓
Continuity	✓	✓	✓
Diode	✓	✓	✓
Capacitor	✓	✓	✓
Bluetooth®	✓	✓	✓
Volt Seek	✓	✓	✓
AutoV LoZ (Low Impedance)	✓	✓	
Data Logger		✓	✓
HFR		✓	✓
Backlight		✓	✓
Bar Graph		✓	✓
A AC		✓	✓
A DC		✓	✓
Temperature			✓
PV Voltage with SA163 (option)			✓



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



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# SEFRAM 7220 - 7221 - 7223

# Sefram

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Specifications	SEFRAM 7220	SEFRAM 7221	SEFRAM 7223
<b>Frequency</b>	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
Current Sensivity	-	>0.6A	>0.6A
<b>Temperature</b>			
Range	-	-	-40°C to 400°C
Accuracy	-	-	±(1% + 20D)
Resolution	-	-	0.1°C
<b>VoltSeek</b>			
Voltage Range of High Sensitivity		80V to 1000V	
Voltage Range of Low Sensitivity		160V to 1000V	
<b>General Specifications</b>			
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

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FT722X EN00 - Specifications can be updated without notice



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