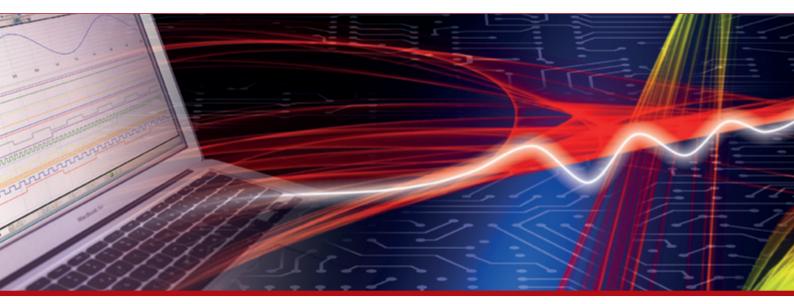


Product Datasheet - Technical Specifications



More information in our Web-Shop at ▶ www.meilhaus.com

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SEFRAM 7220 - 7221 - 7223

TRMS AC Digital Multimeters 6000 counts, Bluetooth®

TRMS AC



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

600V CAT IV

1000V CAT III

Bluetooth®

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 7223		
mV AC	4,40mV	
5,3 4,8		
4.3		
3,3		

Sefram connect iOS® and Androïd® 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)			√

SEFRAM 7220 - 7221 - 7223



TRMS AC Digital Multimeters 6000 counts, Bluetooth

Specifications	SEFRAM 7220	SEFRAM 7221	SEFRAM 7223		
DC Voltage					
Range		600mV to 1000V			
Accuracy		$\pm (0.5\% + 5D)$			
Resolution	0.1mV to 1V				
Input Impedance	10ΜΩ				
Protection	1000V AC/DC				
AC Voltage (TRMS AC)	1000 ¥ 1101 00				
Range	600mV to 1000V				
Accuracy	±(1.0% + 5D)				
Resolution	0.1mV to 1V				
Bandwith	45 to 500Hz				
Input Impedance	10ΜΩ				
Protection		1000V AC/DC			
AutoV LoZ Voltage					
Range	600V to 10	V000V	-		
Accuracy	±(2.0% +	3D)	-		
Resolution	0.1V to ′		-		
Bandwith	45 to 500)Hz	-		
Input Impedance	< 3kΩ		-		
Protection	1000V AC	/DC	-		
PV DC Voltage with optional test					
Range	-	-	600V to 2000V		
Accuracy	-	_	±(2.0% + 5D)		
Resolution	-	-	0.1V to 1V		
Input Impedance	-	_	10ΜΩ		
Protection	-	_	1000V AC/DC		
PV AC Voltage with optional test	leads SA163		10001710750		
Range	-	-	600V to 1500V		
Accuracy	-	_	±(2.0% + 5D)		
Resolution	-	_	0.1V to 1V		
Bandwith	-	_	45 to 500Hz		
Input Impedance	-	_	10ΜΩ		
Protection	_	_	1000V AC/DC		
DC Current		1	100017(0) DC		
Range	<u>-</u>	l 6A t	to 10A		
Accuracy	-	+(1.0)	% + 3D)		
Resolution	_	0.001A to 0.01A			
Protection	_	Fusible AC/DC 11A			
Resistance	l	T dalble /	(O/ DC 11/)		
Range		600Ω to $40 M\Omega$			
Accuracy		±(0.9% + 5D)			
Protection		1000V AC/DC			
Continuity		1000 V 7(0) DC			
Range		600Ω			
Accuracy		±(0.9% + 5D)			
Protection		1000V AC/DC			
Buzzer	2kHz				
Response Time of Buzzer	< 500µsec				
Diode		ν σουμσες			
Range		1,5V			
Accuracy		±(0.9% + 2D)			
Protection		1000V AC/DC			
Open Circuit Voltage	Approx. 1.8V				
Capacitance		Αρριολ. 1.01			
Range		1μF to 10mF			
Accuracy		±(1.9% + 5D)			
Resolution	0.001µF to 0.01mF				
Protection	1000V AC/DC				
FIOLECTION	L	TOUGN ACTUC			

SEFRAM 7220 - 7221 - 7223



TRMS AC Digital Multimeters 6000 counts, Bluetooth

Specifications	SEFRAM 7220	SEFRAM 7221	SEFRAM 7223	
Frequency				
Range		100Hz to 100kHz		
Accuracy		±(0.1% + 2D)		
Voltage Sensivity	1Hz to 10kHz : >5V	1Hz to 10kHz : >5V		
	10kHz to 50kHz : unspecified 50kHz to 100kHz : unspecified	10kHz to 50kHz : >5V		
	50kHz to 100kHz : unspecified	50kHz to 100kHz : >20V		
Current Sensivity	-	>0.6	6A	
<u>Temperature</u>				
Range	-	-	-40°C to 400°C	
Accuracy	-	-	±(1% + 20D)	
Resolution	-	-	0.1°C	
VoltSeek		00)// 4000)/		
Voltage Range of High Sensitivity Voltage Range of Low Sensitivity		80V to 1000V		
		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 -20°C to 60°C. 0 to 80% HR (without batteries)			
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





