

BENCH MULTIMETERS

TRMS AC



BK 2831D

Capabilities

- 20 000 counts, LED display
- Voltage measurements up to 1000VAC and 1200VDC
- True RMS AC
- Frequency meter up to 200KHz
- Current measurement up to 20A AC/DC
- Basic accuracy for DC is 0,05%
- **IEC 1010 : 600 V CAT II**

TRMS AC



Sefram 7211

Capabilities

- Dual power source (batteries or mains)
- 4000 counts display
- Panoramic LCD with backlight
- True RMS AC
- Min, Max, Hold functions
- Bargraph
- **IEC 1010 : 600 V CAT III**

TRMS AC+DC



Sefram 7240

Capabilities

- Triple display with backlight and bargraph
- Dual power source (batteries or mains)
- 40000 counts
- True RMS AC+DC
- Frequency and capacitance measurements
- Min, Max, Hold, dB, dBm, REL functions
- RS-232 isolated interface with application software
- **IEC 1010 : 600 V CAT III**



Sefram 7210B

2008 NEW

Capabilities

- Dual power source (batteries or mains)
- Panoramic LCD with backlight
- 2000 counts display
- Frequency meter
- **IEC 1010 : 600 V CAT II**



SEFRAM 7211 and 7240 can be powered by batteries or mains. These instruments can be used either for field application or for laboratory measurements. The built-in compartment make the storage of cables and accessories very easy.

Technical Specification	BK2831D	SEFRAM 7210B	SEFRAM 7211	SEFRAM 7240
VDC	2V to 1200V (4 rges)	200mV to 600V (5 rges)	400mV to 1000V (5 rges)	40mV to 1000V (6 rges)
Accuracy*	±(0,05% + 5d)	±(0,5% + 2d)	±(0,1% + 2d)	±(0,06% + 8d)
VAC	2V to 1000V (4 rges)	2 V to 600V (4 rges)	4 V to 750V (4 rges)	400 mV to 1000V (5 rges)
Accuracy*	±(0,75% + 10d)	±(1,5% + 5d)	±(0,5% + 5d)	±(0,7% + 5d)
Bandwidth	40Hz - 10KHz	50 Hz - 500Hz	40 Hz - 1 KHz	40Hz - 100KHz
VAC + DC	-	-	-	400mV to 750V (5 rges)
Accuracy*	-	-	-	±(0,7% + 5d)
IDC	2mA to 20A (5 rges)	200µA to 10A (4 rges)	4 mA to 10A (4 rges)	40mA to 10A (4 rges)
Accuracy*	±(0,75% + 5d)	±(1% + 2d)	±(0,4% + 2d)	±(0,2% + 4d)
IAC	2mA to 20A (5 rges)	200µA to 10A (4 rges)	4 mA to 10A (4 rges)	40 mA to 10A (4 rges)
Resistance	2KΩ to 20MΩ (5 rges)	200 Ω to 20MΩ	400 Ω to 40MΩ	400Ω to 40MΩ
Accuracy*	±(0,2% + 5d)	±(0,7% + 3d)	±(0,4% + 2d)	±(0,3% + 2d)
Continuity test	yes	yes	yes	yes
Diode test	yes	yes	yes	yes
Frequency	20Hz 200KHz (2 rges)	200Hz to 20MHz (5 rges)	100Hz to 1MHz (5 rges)	400 Hz to 4MHz (5 rges)
TRMS	TRMS AC	-	TRMS AC	TRMS AC+DC
Capacitance	-	-	4 nF to 40µF (5 rges)	4 nF to 10mF (5 rges)
Temperature	-	-	-	-50°C to +1200°C
Memory	-	-	yes	Yes, 10
Peak-hold	-	-	yes	yes
Relative mode	-	-	yes	yes
Other functions	-	-	Hold	dB, dBm, Min-Max, auto-hold
RS-232 interface	-	-	-	yes, optoisolated
General Specification				
Bargraph	-	-	42 segments	80 segments
Display	LED, 20 000 counts	LCD, 2000 counts	LCD, 4000 counts	LCD, triple display 40 000 counts
Measurement rate	2 mes/s	2 mes/s	2 mes/s	2 mes/s
Backlight	-	yes	yes	yes
IEC 1010	600V CAT II	600 V CAT II	600V CAT III	600V - CAT III
Power supply	115/230V	Battery / mains	Battery / mains	Battery / mains
Dimensions, weight	240 x 90 x 270mm, 2,1Kg	218 x 195 x 73 mm, 1,3kg	218 x 195 x 73 mm, 1,3kg	230 x 250 x 95 mm, 1,7Kg

Accuracy values are basic accuracy. For 7240, accuracy is specified in 4000 counts mode. It is necessary to multiply by 10 the specifications for 40000 counts accuracy.

Optional accessories : see page 54, 55, 56, 57.



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Bench Multimeter

BENCH MULTIMETERS

TRMS AC+DC



BK 5491A

Capabilities

- 50000 counts, dual display
- True RMS AC, AC+DC
- Basic accuracy 0,02% for VDC
- Frequency meter up to 500KHz
- dBm measurements
- RS-232 interface
- IEC 1010 : 600 V CAT II

TRMS AC+DC



BK 5492

Capabilities

- Selectable 120000/40000/4000 counts
- Dual display
- True RMS AC, AC+DC
- Selectable measurement rates
- 2 or 4 wires resistance measurements
- IEEE interface (option)
- IEC 1010 : 600 V CAT II

These two high resolution benchtop multimeters are designed to be used in any high school, technical trade school, university, R&D department, service, maintenance, test and manufacturing, with high performances at a low price.

Technical Specification	BK 5491A	BK 5492
VDC	500 mV to 1000 V (5 rges)	120 mV to 1000 V (5 rges)
Accuracy*	± (0,02% + 4d)	± (0,012% + 5d)
VAC	500 mV to 750 V (5 rges)	120 mV to 750V (5 rges)
Accuracy*	± (0,5% + 40d)	± (0,2% + 100d)
Bandwidth	30 Hz to 100 KHz	30 Hz to 100KHz
VAC + DC	500 mV to 750 V (5 rges)	120 mV to 750 V (5 rges)
Accuracy*	± (0,05% + 50 d)	± (0,2% + 45d)
IDC	500 µA to 10 A (6 rges)	12 mA to 12 A (4 rges)
Accuracy*	± (0,05% + 5d)	± (0,05% + 15d)
IAC	500 µA to 10 A (6 rges)	12 mA to 12 A (4 rges)
Resistance	500 Ω to 50 MΩ (6 rges)	1,2 kΩ to 120 MΩ (6 rges)
Accuracy*	± (0,1% + 5d)	± (0,05% + 8d) en 4 fils
Continuity test	yes	yes
Diode test	yes	yes
Frequency	5 Hz to 500 KHz (4 rges)	5 Hz to 1 MHz (4 rges)
TRMS	TRMS AC + DC (voltage and current)	TRMS AC + DC (voltage and current)
Relative mode	yes	yes
Other functions	dBm, %, MIN, MAX, HOLD, COMP	dBm, %, MIN, MAX, HOLD, COMP
RS-232 interface	yes	yes
General Specification		
Display	VFD (vacuum)	VFD (vacuum)
Measurement rate	1 to 3 mes/s	2 to 20 mes/s
Safety	600V CAT II	600V CAT II
Power supply	100 / 120 / 220 / 240V - 50 / 60Hz	100 / 120 / 220 / 240 V - 50 / 60Hz
Dimensions, weight	255 x 105 x 305 mm, 3Kg	255 x 105 x 305 mm, 3Kg

Optional accessories : RK01 : Rack Mount
 BK 5492 GPIB : model with GPIB interface
 Optional accessories : see page 54, 55, 56, 57.
 External software p/n : AK 5491