6.0 GHz, with TCXO, micro SD card datalogger, Bench type

FREQUENCY COUNTER







The Art of Measurement

FREQUENCY COUNTER

Model: FC-6000SD

FEATURES

* TCXO (temperature compensated crystal oscillator) time base, high stability & accuracy. * High sensitivity for the VHF & UHF frequency measurement, useful for the CB amateur. * Wide measuring range up to 6.0 GHz. * Used the exclusive Microprocessor IC offered the intelligent function: Frequency, Period, Multi resolution, Data hold, Relative measurement, Data record (Max., Min., Average reading). * 4.3 " TFT LCD. * 0.1 Hz resolution for 10 MHz. * LCD display for low power consumption & clear read-out even in bright ambient light condition. * Power supply from battery or AC to DC 9V adapter. * PS 232 PC serial interface.					
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* PS 232 PC serial interface	* Power supply from battery or AC to DC 9V adapter.				
NO 252 FO Serial Interface.	* RS 232 PC serial interface.				

General & Electrical Specifications (23 ± 5 °C)

Circuit	4.3 " TFT L	CD			
Circuit					
Measurement	480 x 272 Dots.				
ivieasurement	Frequency, Data hold, Relative,				
D	Memory (max., min., average), Period.				
Range	6.0 GHz		500 MHz to 6000 MHz (INPUT A)		
	1 GHz		10 MHz to 1 GHz.(INPUT B)		
			10 Hz to 10 MHz(INPUT C)		
	Clock width&Duty 10 Hz to 100 KHz(INPUT C)				
Resolution		_	"Table for Resolution &		
Sampling Time	Sample Tim	ıe".			
Sensitivity	6 GHz		\geq 30 mVrms(500 MHz to 6 GHz).		
(0.15.5	1 GHz		≥30 mVrms(10 MHz to 1 GHz).		
(0 dB Function)					
	10 MHz &		\geq 15 mV rms.(10 Hz to 10 MHz)		
	Period				
Max. functional	6 GHz		300 mVrms(500 MHz to 1.5 GHz)		
signal input			4 Vrms(1.6 GHz to 6 GHz)		
(Sensitivity	1 GHz	≤	4 V rms		
set to -20 dB					
position)	10 MHz ,	≦	15 Vrms		
	Period,				
	Clock width	3\	/pp ~ 5 Vpp		
	& Duty				
Over-input	6.0 GHz & 1		range :		
(Max. signal	Max.4 V rm				
will not hurt	10 MHz & Period,Clock Width &				
the circuit)	Duty Range: Max. 15 Vrms				
Time Base	1 PPM (- 20 to 70 °C).				
Stability vs. Temp.	<u> </u>				
Frequency	±(2PPM+1d)				
Accuracy	* at 23±5°	C			
Width/Duty	± (3 % read		20d)		
Accuracy	* at 23± 5 °C	2			
Time Base circuit	20 MHz, TC				
	compensated crystal oscillator).				
Input Connector 6 GHz range : N coa					
		GHz range : N coaxial connector.			
_	10 MHz & Period range: BNC connector.				
Case	Durable & strong ABS-plastic housing				
	with handle.				
Datalogger	Auto 1 to 3600 sec.				
Sampling Time	@ Sampling time can set to 1 second,				
Setting range	but memory data may loss.				

Data error no.	≦ 0.1 % n	o. Of total saved data typically.				
Memory Card		SD memory card. 1 GB to 256 GB.				
Advanced		* Set clock time (Year/Month/Date,Hour/Minute/ Second)				
setting		* Set sampling time				
	* Auto power OFF management					
		* Set beep Sound ON/OFF				
		point of SD card setting				
Data Hold		* SD memory card Format				
Memory Recall		Freeze the display reading.				
Sampling Time		Maximum & Minimum value. Approx. 1 second.				
	Approx. 1	Second.				
of Display	DC 222/116	CR DC commuter interfece				
Data Output		SB PC computer interface. It the optional RS232 cable				
		02 will get the RS232 plug. It the optional USB cable				
		USB-01 will get the USB plug.				
Operating Temp.	0 to 50 °C (32 to 122 °F).					
Operating	Less than	Less than 80%.				
Humidity						
Power Supply	I	A (UM-3) battery (Alkaline or Heavy Duty)				
	or AC to DO	C 9V Linear power adapter.				
Power	6 GHz : Ap	prox. DC 310 mA				
Consumption	1 GHz: A	pprox.DC 220 mA.				
(-20 dB position)	10 MHz & F	Period range				
	Approx. DC	C 150 mA.				
AC Adapter	Optional,	Linear AC to 9V DC , 800 mA rating,				
Power Input	central pos	central positive for socket.				
Dimension	295 x 236 >	(98 mm (11.6 x 9.3 x 3.9 inch).				
Weight	1465 g/3.23	B LB (including battery).				
Standard	Instruction	Instruction Manual 1 PC.				
Accessories						
Optional	PB-21	Direct probe with BNC connector &				
Accessories		alligator clip pairs, available for				
		10 MHz range				
	BB-22	Direct probe with double BNC				
		connector, available for 100 MHz &				
		10 MHz range.				
	NN-23	Direct probe with double N coaxial				
		connector, available for 1000, 6000				
		MHz range.				
	NB-24	N coaxial connector to BNC				
	1	connector adapter.				
	-	Isolated RS232 cable.				
	UPCB-	IISOIALEU INSESE CADIE.				
	UPCB- 2	Isolated NG232 Cable.				
	2 AC-	Linear AC to 9V DC , 800 mA rating				
	2					

TABLE FOR RESOLUTION & SAMPLE TIME

Range	Gate Time Select	Resolution
	0.5 SEC	1000 Hz
6000 MHz	6.5 SEC	100 Hz
(6.0 GHz)	4 SEC	200 Hz
	2 SEC	500 Hz
	1 SEC	100 Hz
1000 MHz	8 SEC	10 Hz
(1 GHz)	4 SEC	20 Hz
	2 SEC	50 Hz
10 MHz	0.5 SEC	10 Hz
	1.5 SEC	1 Hz
	6 SEC	0.2 Hz
	11 SEC	0.1 Hz