2.7 GHz, Bench type, with TCXO

FREQUENCY COUNTER

Model: FC-2700 *ISO-9001, CE, IEC1010*



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 2.7 GHz.

- * Battery power or AC/DC adapter.
- * Used the exclusive Microprocessor IC offered the intelligent function: Frequency, Period, Multi resolution, Data hold, Relative measurement, Data record (Max., Min., Average reading).
- * 8 digits, 18.3 mm large LCD.
- * 0.1 Hz resolution for 10 MHz.





The Art of Measurement

with TCXO, Bench type

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intelligent function: Frequency, Period,				
Multi resolution, Data hold, Relative measurement,				
Data record (Max., Min., Average reading).				
* 8 digits, 18.3 mm large 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.				
* RS 232 PC serial interface.				

GENERAL SPECIFICATIONS

Display	18.3 mm (0.72") LCD (Liquid Crystal			
	Display), 8 digits.			
Measurement	Frequency, Data hold, Relative,			
	Memory (max., min., average), Period.		
Range	2.7 GHz	100 MHz to 2700 MHz		
	100 MHz	10 MHz to 100 MHz.		
	10 MHz	10 Hz to 10 MHz		
	Period	10 Hz to 10 MHz		
Resolution,	Ref. the fo	ollowing "Table for Resolution &		
Sample Time	Sample Ti	mple Time".		
Sensitivity	10 MHz	30 mV rms.		
		(10 Hz to 10 MHz)		
(Sensitivity Sw.	&	Typical: 15 mV rms.		
set to high	Period	(10 Hz to 9 MHz)		
position)	100 MHz	50 mV rms.		
		(10 MHz to 100 MHz)		
		Typical: 25 mV rms.		
		(30 MHz to 100 MHz)		
	2.7 GHz	50 mV rms.		
		(100 MHz to 2.5 GHz)		
		Typical: 35 mV rms.		
		(300 MHz to 2.4 GHz)		
Max. functional	10 MHz	15 V rms.		
signal input	&			
(Sensitivity Sw.	Period	od		
set to normal	100 MHz	4 V rms.		
position)	2.7 GHz	4 V rms.		
		(400 MHz to 2.7 GHz)		
Over-input	10 MHz & Period range :			
(Max. signal	Max. 15 V rms.			
will not hurt	2.7 GHz & 100 MHz range :			
the circuit)	Max. 4 V rms.			
Time Base	1.5 PPM (10 to 30 $^{\circ}\mathrm{C}$).			
Stability vs. Temp.				

Frequency Accuracy Accur						
Time Base circuit compensated crystal oscillator). Input Connector Input Consumption Input Connector Inp	Frequency	1 '	•			
compensated crystal oscillator). Input Connector 10 MHz & Period range : BNC connector. 2700 MHz : N coaxial connector. 2700 MHz : N coaxial connector. 2700 MHz : N coaxial connector. Durable & strong ABS-plastic housing with handle. Operating Temp. O to 50 ℃ (32 to 122 ℉). Operating Humidity Power Supply 6 x 1.5 V AA (UM-3) battery or AC to DC 9V adapter. Power Consumption Approx. DC 105 mA. 10 MHz & Period range Approx. DC 45 mA. AC Adapter Power Input Central positive for socket. Dimension 280 x 210 x 90 mm (11.0 x 8.3 x 3.5 inch). Weight 1200 g/0.27 LB (including battery). Standard Accessories Optional Accessories Optional Accessories Optional Accessories Direct probe with BNC connector & alligator clip pairs, available for 10 MHz ange 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 100, 2700 MHz range. NN-23 NR-24 N coaxial connector to BNC connector adapter. UPCB- Isolated RS232 cable.	Accuracy	$23\pm5~$ °C, after calibration.				
Input Connector 10 MHz & Period range : BNC connector. 100 MHz range : N coaxial connector. 2700 MHz & Strong ABS-plastic housing with handle. Operating Temp. O to 50 °C (32 to 122 °F). Operating Humidity	Time Base circuit	16.777216 MHz, TCXO (temperature				
Too MHz range: N coaxial connector. 2700 MHz: N coaxial connector. Durable & strong ABS-plastic housing with handle. Operating Temp. 0 to 50 °C (32 to 122 °F). Operating Less than 80%. Humidity Power Supply 6 x 1.5 V AA (UM-3) battery or AC to DC 9V adapter. Power 2700 MHz & 100 MHz range: Consumption Approx. DC 105 mA. 10 MHz & Period range Approx. DC 45 mA. AC Adapter Optional, 9V DC , 300 to 500 mA rating, central positive for socket. Dimension 280 x 210 x 90 mm (11.0 x 8.3 x 3.5 inch). Weight 1200 g/0.27 LB (including battery). Standard Accessories Optional PB-21 Direct probe with BNC connector & 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 100, 2700 MHz range. NB-24 N coaxial connector to BNC connector adapter. UPCB- Isolated RS232 cable.		compensated crystal oscillator).				
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connector adapter. UPCB- Isolated RS232 cable.			MHz range.			
UPCB- Isolated RS232 cable.		NB-24	N coaxial connector to BNC			
UPCB- Isolated RS232 cable.			connector adapter.			
02		UPCB-				
		02				

TABLE FOR RESOLUTION & SAMPLE TIME

.,,D_L O.	TABLE FOR RESOLUTION & SAME LE TIME						
Range	Gate Time Select	Resolution	Sampling Time				
	FAST	10 Hz	0.5 SEC				
	SLOW	1 Hz	1.25 SEC				
10 MHz	SLOW (select 1)	0.2 Hz	6 SEC				
	SLOW (select 2)	0.1 Hz	11 SEC				
	FAST	100 Hz	0.75 SEC				
	SLOW	10 Hz	6 SEC				
100 MHz	SLOW (select 1)	20 Hz	5 SEC				
	SLOW (select 2)	50 Hz	1.5 SEC				
	FAST	1000 Hz	0.5 SEC				
2700 MHz	SLOW	100 Hz	2.75 SEC				
(2.7 GHz)	SLOW (select 1)	200 Hz	1.5 SEC				
	SLOW (select 2)	500 Hz	0.75 SEC				

 $^{^{\}star}$ Appearance and specifications listed in this brochure are subject to change without notice.