

# FREQUENCY COUNTER (Model : FC 50M / FC2G)



## TECHNICAL SPECIFICATIONS

Specification		Model						
		FC 50M			FC 2G			
Frequency	Frequency range	2Hz to 50 Mhz.			2Hz to 2GHz.			
	Range selection	2 Step switch settings to select 2Hz to 1MHz or 1MHz to 50MHz.			3 Step switch settings to select 2Hz to 1MHz or 1MHz to 70MHz, 70MHz to 2GHz (separate BNC).			
Display	Freq. Display Hz	8 digit, 0.5" red LED display with accuracy of $\pm 1$ count $\pm$ crystal controlled time base accuracy (500PPM).			8 digit, 0.5" red LED display with accuracy of $\pm 1$ count $\pm$ crystal controlled time base accuracy (500PPM). X1000 LED to indicate GHz range.			
Gate Time	Sec	1 Sec derived from crystal of 32.768 KHz						
Input	Attenuator	X1	X0.1	X10, X50	X1, X0.1, X10, X50		RF IN	
	Max Voltage (DC+AC Peak)	30Vpp	300Vpp	3Vpp	Max Vtg. is same as model FC50M		$\pm 1$ Vpp/ +13 dBm	
	Impedance	1 Mohm (25pF-140pF)			AC separate BNC for RF I/P 50Ohm			
	Coupling	AC (RC 33 $\mu$ s)			AC (RC 33us)	(AC Coupled)		
Sensitivity	Frequency Range	X1	X0.1	X10	X50	X1, X0.1, X10, X50		RF IN Sensitivity
	2Hz-1MHz	<MHz	250mVpp	2.5 Vpp	50mVpp	20mVpp	Sensitivity is same as model FC50M	
	1Hz-10MHz	>MHz	250mVpp	2.5 Vpp	300mVpp	100mVpp	Frequency Range Less than	
	> 10MHz		250mVpp	2.5 Vpp	60mVpp	20mVpp	50MHz-70MHz +/-1.5V 70MHz-150MHz +/-1Vpp 150MHz-2GHz -5dBm(300mVpp)	
Stopwatch Timer mode	Duration Measurement	Can measure duration upto 99999.999 sec ( 27.77 hrs. max.) between two optically isolated start/stop events.						
	Time displace Enable (Sec)	8 Digit, 0.5" Red display with resolution of 1 msec.						
	I/P Start & End	40Vdc max. or 20mA max. current whichever is less. Start: Falling Edge Triggered. End:Rising Edge Triggered.						
General	Operating Temp. Power Dimensions Weight Accessories	0 to 50°C ( Accuracy specified at 25°C), 230 VAC $\pm$ 10%, 50 Hz, 16.4VA. 255 (W) X 270 (D) X 98 (H) . Approximately 1.9 Kg. Power cord, BNC to BNC , BNC to Crocodile cable, 50 Termination & Operating manual.						

### SALIENT FEATURES

- ◆ 2 models : 2 Hz to 50 MHz and 2Hz to 2GHz.
- ◆ Built-in **STOPWATCH** to measure duration.
- ◆ 8 digit 0.5" bright red display with accuracy of  $\pm 1$  count + stable crystal controlled time base accuracy+ x1000LED for GHz
- ◆ Selectable attenuator of X0.1(High voltage, low frequency)/ X1/ X10/ X50 (low amplitude, high frequency).
- ◆ Two separate inputs with sensitivities of 300 mVpp and 50 mVpp min.,RF I/P.
- ◆ Input impedance of 1Mohm.

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