

# FREQUENCY COUNTER Model : FC50M/2G



## Test & Measurement Division



### Salient Features

- Wide Frequency range: 2 Hz to 50 MHz and 2Hz to 2GHz
- Built-in **STOPWATCH** to measure duration(max. 27 Hrs.) between two optically isolated start/stop events with resolution of 1msec.
- 8 digit 0.5" bright red display with accuracy of  $\pm 1$  count + stable crystal controlled time base accuracy + X1000 LED for GHz.
- I/P voltage 300 Vpp max.
- 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 1M $\Omega$ .
- Useful for testing and measurement in the laboratory and on field.

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Specifications are subject to change without notice.

## TECHNICAL SPECIFICATIONS

SPECIFICATIONS		MODEL								
		FC50M				FC2G				
<b>FREQUENCY</b>	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).				
<b>DISPLAY</b>	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.				
<b>GATE TIME</b>	Sec	1 Sec derived from crystal of 32.768 KHz								
<b>INPUT</b>	Attenuator	X1	X0.1	X10, X50	X1, X0.1, X10, X50 Max Vtg. is same as model FC50M		RF IN			
	Max Voltage (DC+AC Peak)	30Vpp	300Vpp	3Vpp			$\pm 1V/$ dBm			
	Impedance	1 M $\Omega$ (25pF-140pF)				AC separate BNC for RF I/P 50Ohm				
	Coupling	AC (RC $\approx$ 33 $\mu$ s)				AC (RC $\approx$ 33 $\mu$ s)		(AC Coupled)		
<b>SENSITIVITY</b>	Frequency Range		X1	X0.1	X10	X50	X1, X0.1, X10, X50 Sensitivity is same as model FC50M		RF IN Sensitivity	
	2Hz-1MHz	<MHz	250mV pp	2.5 Vpp	50 mVpp	20 mVpp			Frequency Range	
	1MHz-10MHz	>MHz	250mV pp	2.5 Vpp	300 mVpp	100 mVpp	50MHz-70MHz		+/-1.5V	
	> 10MHz		250mV pp	2.5 Vpp	60 mVpp	20 mVpp	70MHz-100MHz		+/-1V	
							100MHz-2GHz		dBm	
<b>GENERAL</b>	Operating Temp	0 to 50 $^{\circ}$ C (Accuracy specified at 25 $^{\circ}$ C).								
	Power	220/230VAC SW $\pm$ 10%, 50 Hz, 15VA.								
	Weight	Approximately 1.9 Kg.								
	Dimensions	255 (W) X 270 (D) X 98 (H).								
	Accessories	Power cord, BNC to BNC, BNC to Crocodile cable, & Operating manual_								

### STOPWATCH TIMER MODE-

SPECIFICATIONS	DESCRIPTION
<b>TIME MEASUREMENT</b>	Max. duration Can measure duration upto 99999.999 sec ( 27.77 hrs. max.) between two optically isolated start/stop events.
<b>DISPLAY WITH SWITCH TO ENABLE STOPWATCH</b>	Time Display (in sec) 8 Digit ,0.5" Red display with resolution of 1 msec.
	Accuracy Multiply by 0.97656 to obtain the duration $\pm$ crystal controlled time base accuracy.
<b>INPUT VOLTAGE/CURRENT ( Start &amp; End )</b>	Parameters 40 V dc max. or 20 mA max. current whichever is less. Start: Falling Edge Triggered. End: Rising Edge Triggered.
<b>GENERAL</b>	Operating Temp. Power Dimensions Weight Accessories 0 to 50 $^{\circ}$ C ( Accuracy specified at 25 $^{\circ}$ 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 $\Omega$ Termination & Operating manual.