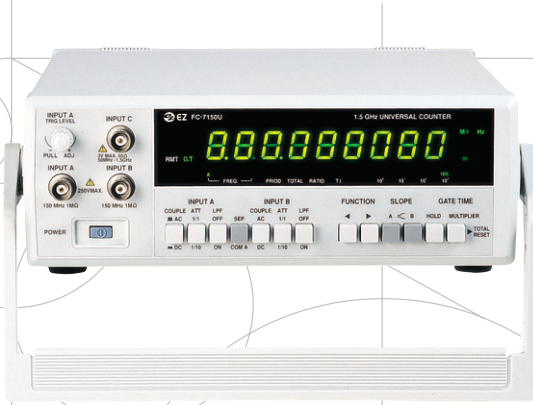


FC-7150U/7015U/7150/7015

UNIVERSAL / FREQUENCY COUNTER



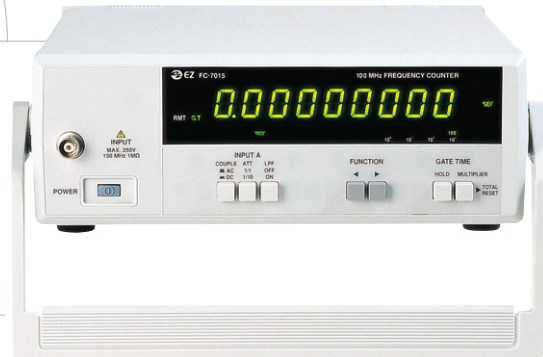
FC-7150U



FC-7015U



FC-7150



FC-7015

FC-7015U/7150U Universal Counter

- Frequency measuring range : 0.1Hz~100MHz in A,B input 80MHz~1.5GHz in C input(7150U only)
- Trigger level adjustment for input A
- Separate and Common mode selectable for input A and B
- Period and Total measurement for input A
- Time interval and Ratio measurement for input A and B
- Slope mode selectable for input A and B

FC-7015/7150 Frequency Counter

- Frequency measuring range : 0.1Hz~100MHz in A,B input, 80MHz~1.5GHz in C input(7150 only)
- Period measurement for input A
- Total measurement for input A
- RPM measurement for input A

FEATURES

- 9 Digit display with 0.01mHz resolution in 1sec
- RS-232C serial interface for communication with computer(Optional)
- High sensitivity external reference input function ($\geq 20\text{mVrms}$)
- Microprocessor controlled
- Reciprocal technique for high resolution at low counting frequencies
- Self check function executed to perform an automatic self diagnosis of various counter function
- Push - scanning for selecting function and gate time
- Low - pass filter(100kHz, -3dB)installed for removing noise signal in low frequency measuring
- AC/DC coupling function(Selectable X1/X10 Attenuator)
- Data-Hold function

Specifications

SPEC		MODEL	FC-7150U	FC-7015U	FC-7150	FC-7015
Frequency Measurement	Display	9digit large green LED display (Overflow, Gate time, mHz, kHz, MHz, ns, μ s, ms, s, Hold)				
	Range	0.1Hz~1.5GHz	0.1Hz~100MHz	0.1Hz~1.5GHz	0.1Hz~100MHz	
	Gate time	0.01sec, 0.1sec, 1sec, 10sec				
	Resolution	1nHz ~ 10Hz				
	Accuracy	\pm Resolution \pm timebase error \pm 1count				
Input Characteristics	Terminal	A, B, C	A, B	A, C	A	
	Sensitivity	A, B input : 20mVrms, C input : 30mVrms				
	Impedance	A, B input : 1M Ω <40pF, C input : 50 Ω				
	Max. Voltage	A, B input : 250Vrms, C input : 3Vrms				
	Attenuator	A, B input : \times 1, \times 10				
	Slope A, B	+, - selectable				
	Trigger A	Preset or Variable				
	L.P.Filter	A,B input : 100kHz, -3dB				
Multi Function for Input A	Period	Range : 10ms ~ 10s, Resolution : 1ps ~ 1ns Accuracy : \pm Resolution \pm Trigger Error \pm 1count				
	Totalize	Range : 5Hz ~ 30MHz, Count capacity : 0 ~ 999999999(Max)				
	RPM	-			6 ~ 900 \times 10 ⁶ RPM	
Comparison Function for Input A, B	Time Interval(A \rightarrow B)	Range : 0.1 μ s ~ 10s LSD Display : 100ns Resolution : \pm LSD \pm Trigger Error Accuracy : \pm Resolution \pm 1count				
	Ratio(A/B)	Range : A input : 0.1Hz ~ 10MHz B input : 0.1Hz ~ 10MHz LSD Display : A \times N / B, N = 1~1000 Accuracy : \pm 1count of A \pm B Trigger Error \pm A				
Time Base Characteristics	Internal Time base	- Frequency : 10MHz TCO(TCXO : Option) - Aging Rate : <3 \times 10 ⁷ / month - Temperature Stability : < 5 \times 10 ⁶ (0~+50 $^{\circ}$ C) - Line Voltage : < 1 \times 10 ⁷ for 10% variation				
	Frequency Output	Frequency : 10MHz, Amplitude : 2.5Vp-p, Impedance : Approx. 500 Ω				
	External Input	Frequency : 10MHz, input level : 20mV ~ 5Vrms, Impedance : Approx. 500 Ω				
	Power Requirement	AC115 / 230V \pm 10% (50 / 60Hz)				
General	Operating Temperature	0 ~ 40 $^{\circ}$ C(specified at 25 $^{\circ}$ C \pm 5 $^{\circ}$ C)				
	Dimension	225(W) \times 260(D) \times 80(H)mm				
	Weight / Accessories	Approx. 2kg / Power cord, BNC cable, Fuse, Operator's manual				