JEINTEK® C3100 2.4GHz Programmable Universal Counter

Features



- Programmable Record (MAX / MIN): Records and displays the MAX and MIN values of the input freq.
 - Relative (REF / ERR): Displays Reference frequency and the deviation of the measured frequency from the reference frequency as a % error.
 - Compare (GO-NOGO): The LCD will display PASS if the input frequency is with in the HI/LO limits, LO if the frequency is lower than the LO limit and HI if the frequency is higher than the HI limit.

- Frequency range CHC: 2.4GHz (CHA, B: 120MHz)

 - Measurement FRQ. A, FRQ. B, FRQ. C, Time interval, Totalize, Ratio A/B, Difference Freq. (A-B), Duty cycle and RPM (See Model No.: C3100, C3110 or C3120)

Resolution • 7 Digits

- Range Full Auto Range
- Trend Plot The REF is the centerline value on the trend graph, H/Div is the X axis (time) and V/DIV is the Y axis (amplitude).
 - **Setup** Setting and functions may be selected and stored in memory from the front panel. Eight setups may be stored in memory.
- **Equipment** Displays information about your instrument including the Model number, serial number, Calibration date,
- Remote Control Function and ranges may be controlled from a PC via the RS232 or the optional GP-IB interface.
- Power Source May be used with any line voltages from 85V to 270Vac (±10%, 48 to 66Hz) without any internal changes.
 - Display 128 by 64 pixel Super Twisted LCD display



Programmable Record



Trend Plot



Programmable Relative





Setup

Equipment

Programmable Compare

■ Electrical Specifications

		Description	C3100	
CHA input Characteristics	Frequency Range	0 to 120MHz(DC Coupled), 10Hz to 120MHz(AC coupled)		
	Sensitivity	25mV RMS (Sine Wave)		
	Impedance	1Mohm less with less than 35pF capacitance		
	Attenuator	x1, x10		
	Max. Input voltage	250V (DC or AC Peak)		
	Trigger level	±1.28V variable.		
	Trigger slope	Positive or Negative		
CHB input Characteristics	Same as CHA	Same as CHA	•	
CHC input Characteristics Measurement Function	Frequency Range	100MHz to 2.4GHz		
	Sensitivity	25mV RMS (Sine Wave)		
	Coupling	AC		
	Max. Input voltage	5V (DC or AC peak)		
	 Coupling: AC or Slope: Positive Trigger level: ±1 (The trigger level) Low Pass filter: Attenuation: 0 a Resolution: 0.00 	or Negative	•	
	(2) FRQ.B: • Same a		•	
	(3) FRQ.C: • Range: 100MHz to 2.4GHz • Slope: Positive or Negative • Trigger level: Auto • Coupling: AC • Accuracy: ±Time Base Error ±1 Count		•	
	 (4) Time Interval (A→B): • Range: 0.5uS to 0.2S (5Hz to 2MHz) • Pulse width: 250nS minimum • Resolution: 0.1uS Max • Accuracy: Time Base Error ± CHA Trigger Error ± Magnification ±1 Count 		•	
	(5) TOT. A (Totalize): Range: DC to 10MHz Count Capacity: 0 to 9,999,999 (Over Flow) Hold button controls the Start and Stop		•	
	(6) Ratio A/B • Range: CHA inp • Accuracy: CHB	•		
	(7) A-B Freq. Different Accuracy: Time	•		
	(8) DTY. A (Duty Cycles from	•		
	(9) RPM A measure: • Maximum RPM: 600,000 RPM • Minimum pulse width: 250nS		•	
GATE Times	• 50mS, 100mS, 200 900mS, 1S, 2S, 3S • Gating Accuracy Ti	•		
Reference Time Base Oscillator	 Standard Frequence Frequency Stability Aging Rate: ±1.0pp Temperature: -30°C 	•		
	Power Source	85V to 270Vac(±10%, 48 to 66Hz)		
General	Dimensions / Wei	ght 235(W) x 296(D) x 85(H) mm / About 1.5 kg		
	Standard Accessories Users Manual, BNC cable (BNC & Clip), Line Cord, Spare fuse, RS232 Cable and S/W			