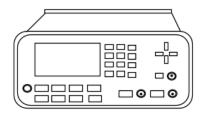




BNC model 1105





Real-Time DSP, Easy LAN Control With Comprehensive GUI

- Up to 6GHz, Standard
- Frequency: 1MHz 400MHz
- Time Interval Resolution: 40pS
- IEEE488.2 and USBTMC Compliance

BNC model 1105

A new counter, Model 1105, from Berkeley Nucleonics compares favorably to existing counters. The 1105 has 12 digits of frequency resolution and 40 ps of time interval resolution. The real-time DSP front-end facilitates faster measurement throughput.

We have made the front panel controls more user-friendly. The SCPI software commands are compatible with the most commonly-used counters so you do not have to rewrite your software. Our LAN control feature lets you control one or several 1105's from your computer with displays of the control or measurement function you want.

Impressive 12 Digits Resolution & 6 GHz Frequency Measurements

The Model 1105 includes a RF Channel 3 with a range from 375 MHz to 6GHz and standard Channels 1 & 2 from 1 mHz to 400 MHz. Up to 20 frequently-used setups may be stored in memory. Our design features full front-end isolation.



Packed with Many New Features

The BNC Model 1105, ISO 9001 compliant, gives users of existing counters all the measurement capability they are used to, with a few exciting new features. Features include Frequency & Ratio (11 digits/sec.), Time interval, Period (2.5 ns to 1000s), Duty Cycle, Pulse Width, Rise/Fall Time, Peak Volts (100 Hz~300 MHz), Phase, Totalize, with a time base temperature stability of < 1 PPM and aging rate of < 2 PPM per year. We can also measure the peak voltage of incoming waveforms as well.

The BNC Model 1105 offers built-in statistics and math functions. Users can measure and display mean, min/max, delta & standard deviation. These apply to period, frequency, time interval, risetime and peak voltage measurements. Scale & offset can be easily used in compensating for systematic occurrences.

All functions are controlled by either the front panel or via remote control. USB control is standard; GPIB is optional. Data logging to a spreadsheet is easily accomplished with included software (PC Compatible). Of interest is the Ethernet connectivity via your LAN, using your IP address. You can control and display the parameters of several 1105's from your local computer.

Fast Measurement & Special Applications

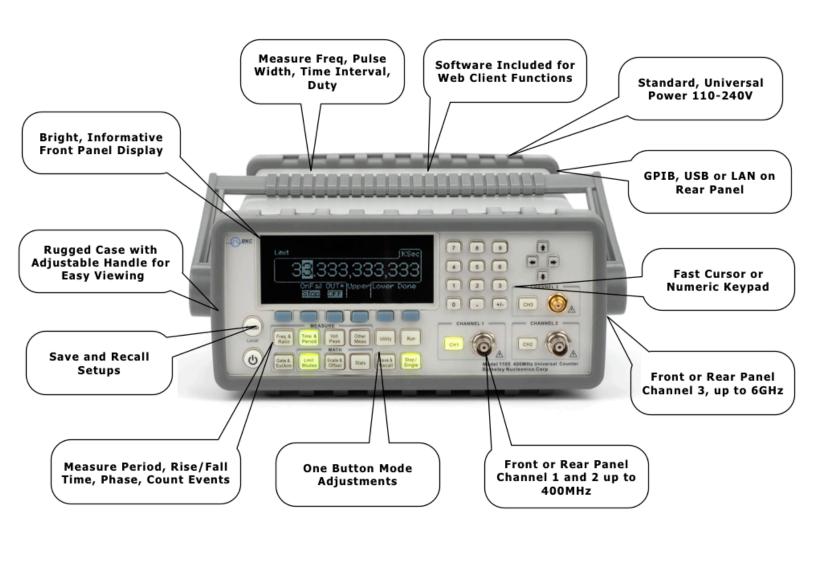
In addition to the real-time DSP (digital signal processing) technology, which increases the measurement speeds, a Limit Mode allows users to set margins according to their specific measurements. Go-NoGo commands can be issued via the USB You may control what happens when a limit is exceeded eg. store current data, stop measuring and generate an output signal to trigger an external device.



Handy Software & Familiar SCPI Commands

Users can obtain data logs in Excel via USB or via an optional GPIB interface. Our web-support mode allows the 1105 to be connected to your office LAN. Users simply call up an Ethernet address (Default: 192.168.0.247) on a local web browser to access and control the Model 1105. We also provide SCPI commands that are compatible with other manufacturers (Agilent 53132A, etc)

Cinnal Ton	at Danes			L)/TTI			
Signal Input Range		LVTTL and TTL compatible					
p.11	ar lat		<u> </u>	Timing Restricti			
Pulse \					> 50 ns		
Transition Time		< 250 ns					
Start-to-Stop Time		> 50 ns					
Damage	e Level	12 Vrms					
			External	Arm Input Ch	aracteristics		
Impedance		1 kΩ					
Input Capacitance		17 pF					
Start Slope		Positive or Negative					
Stop Slope		Positive or Negative					
Notes		External Arm is available for all measurements except Peak Volts. External Arm is referred to as External Gate for some measurements.					
		Z. EXLER	Idi Armi is	referred to as exte	ernai Gate for some	e measurements.	
			Inter	nal Time Base	Stability		
		(a.		Standard		High Stability Oven	
		(0° t		(0° to 50°C)	×-	(1105-opt01)	
Temperature Stabi			1	± 1 x 10E-6		± 5 x 10E-9	
(referenced to 25°				- 1 × 10E-0	8	89.8 (E. S. C.	
	Per Da					± 8 x 10E-10	
Aging Rate	Per Month						
Per Ye				± 2 x 10E-6	88	± 8 x 10E-8	
Turn-on stal	bility vs. tin	ne (30				± 2.0 x 10E-8	
min.)					(n	eferenced to 24 hours)	
Ca	alibration			Electronic		Electronic	
		Ex	ternal Ti	me Base Input	: Specifications		
Voltage Range		200 mVrms to 10 Vrms					
Damage Level		12 Vrms					
1976		Ext	ernal Tir	ne Base Input	Characteristics		
Thres	hold	0 V					
Impedance		1 kΩ					
Input Capacitance		25 pF					
Input Frequency		10 MHz					
Internal vs. E	nternal vs. External Time Man		anual Select Internal or External			or External	
Base Se	lection	Automatic Internal used when External not present (defa				al not present (default)	
			Time B	ase Output Sp	ecifications		
Output Frequency 10 MHz							
	Voltage		570 mVpp (0 dBm), typical				
Impedance		50 Ω (typical), AC coupled					
F-Acus				29792768			
			Meas	surement Speci	ifications		
•	n new tend		1 mHz to 400 MHz (2.5 ns to 1000 s)				
Frequency				1 mHz to 400	MHz (2.5 ne to 1	1000 s)	
Frequency Channel							
Channel Trig	1 and 2 ger				ng is Auto Trigger a		
Channel	1 and 2 ger ate Time			Default settin		at 50 %	







Web-support mode allows the 1105 to be connected to your office LAN.

Model 1105-HF option, which expands Ch.3 measuring range to 250MHz-20.0GHz