#### Test Equipment

## NEW! 5Mhz Function Generator with Frequency Counter

#### Model 4005

Engineers, Technicians, Electricians, Maintenance, Manufacturing, Quality Control & Educators can all use the 4005 in confidence with its exceptional quality, rugged design & housed in high impact case with convent multiple-position handle.



#### Features:

- 4 product in one low cost package
- Function generator, multiple waveforms
- Sweep generator, wide sweep range
- Pulse generator, great accuracy
- Frequency counter, 2Hz to 50Mhz with auto range
- 6 digit seven segment, eye pleasing green LED display
- Display indicates, gate time, MHz, KHz, Hz, mHz

The 4005 is designed to be used, not only as a function generator, but also as a sweep generator, pulse generator and a frequency counter.

The VCF (voltage controlled frequency) produces precision sine, square and triangle waves over the 0.05Hz to 5MHz for sub-audible, audio, ultrasonic and RF applications. A continuously variable DC offset allows the output to be injected directly into circuits at the correct bias level. Variable symmetry of the output waveforms converts the instrument to a pulse generator capable of generating rectangular waves or pulses, ramp or sawtooth waves and skewed sine waves of variable duty cycle.

The sweep generator offers linear sweep with variable sweep rate and sweep width up to 100:1 frequency change. The frequency response of any active or passive device up to 5 MHz can be determined.

The new Model 4005 is a great product for use in a wide range of applications in both analog and digital electronics such as engineering, manufacturing, servicing, maintenance, education and hobbyist



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### **Specifications**

Opcomodions	•		
Model	4005		
OUTPUT CHARACTERISTICS			
Waveforms	Sine, Square, Triangle, Skewed Sine, Pulse, Ramp Sawtooth, TTL/CMOS Leveled Square, DC		
Frequency Range	0.05Hz to 5MHz in 7 Ranges (5, 50, 500, 5k, 50k, 500k, 5M)		
Frequency Accuracy	± 2% 2% (5, 50, 500, 5K, 50K, 500K, 5MHz Range, Full Scale)		
Output Level: Sine & Triangle wave	20 Vpp in open circuit, 10 Vpp into 50 Load		
Square Wave	19 Vpp in open circuit, 9.5 Vpp into 50 Load		
Output Impedance	50 ±5%		
Attenuator	-20 dB fixed and continuously variable (more than -20dB)		
WAVEFORM CHARACTERISTICS			
Sine wave -Flatness	± 3dB to 5 MHz (more than 14Vpp)		
Distortion	Less than 1% at 10 Hz to 100 KHz		
Square wave -Rise and Fall Time	Less than 25 nS (at 5MHz)		
Triangle wave -Linearity	More than 99% at 0.5 Hz to 100 KHz		
TTL Output -Rise and Fall Time	Less than 30 nS (at 1MHz)		
Output Level	TTL Level (H >/_2.4V, L _0.4V)</td		
CMOS Output -Rise and Fall Time	Less than 180 nS (at 1MHz)		
Output Level	4V to 15V ± 2V, Variable		
DUTY RATIO	1:1 to 10:1		
SWEEP FUNCTION CHARACTERISTICS			
Mode	Linear		
Width	Variable from 1:1 to 100:1		
Rate	0.5 Hz to 50 Hz (20 mS to 2 S)		
External VCF Input	Input Voltage: 0 to 10 V		
Input Impedance	Approx. 1 K		



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Model	4005			
FREQUENCY COUNTER CH	ARACTERISTICS			
Display	6 Digit Seven Segment – Green LED, Gate time, MHz,			
	KHz, Hz and mHz			
Frequency Range	2Hz to 50 MHz with Auto Range			
Accuracy	±Time base Error ± 1 count			
Time base	10 MHz Crystal Oscillator, ±20ppm			
Input Sensitivity	200 mVrms (2Hz ~100Hz), 100mV rms (100Hz~50MHz)			
Input Impedance	50			
Max. Input Voltage	250 Vpp			
PHYSICAL CHARACTERISICS				
Dimensions WHD	3.4 x 3.5 x 10.6" (240 x 90 x 270mm)			
Weight	Approx. 5.5 lb (2.5 k)			
<b>Equipment Ratings</b>				
Plug and Socket	3 wire AC power plug and 3 wire outlet			
Power & Fuse Ratings	Input Voltage: <u>Fuse</u> <u>Power Max</u>			
	103 126V AC F 0.5A / 250V 15 W			
1 ower a ruse natings	(50/60Hz)			
	206 252V AC (50/60Hz) F 0.2A / 250V			
Operating Environment				
Temperature	0 °C to + 40 °C (Accuracy Specified at 23 °C ± 5 °C)			
Humidity	up to 85% to 40°C without temperature extremes which may cause			
-	condensation within the instrument.			
Storage Environment				
Temperature	-20°C to +70°C			
Humidity	below 85% RH			
Overvoltage Category	CAT II			
Insulation Category II	Portable equipment			
Pollution Degree	2			
Protection to IEC 529	Ordinary			

Note: Specifications are subject to change without notice. Please visit www.globalspecialties.com for the most current product information

#### Supplied Accessories

•	User's Manual	1
•	BNC Cable	1
•	Power Cord	1
	Spara Fusa	1



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**Authorized Distributor** 

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