



**Scientech 4065** is a high performance 10 MHz Function-Pulse-Data Generator and also a 40 MHz Frequency Counter. Equipped with an internal modulation generator, Scientech 4065 can provide different types of modulated signals like - AM standard - AM balance - FM - ASK - FSK - PWM and also a serial data output. The microcontroller based menu-driven electronic switching for Functions, Frequencies, Attenuation and Modulation with bright backlit Liquid Crystal Display helps in easy selection of parameters. The new Scientech 4065 is an ideal choice for modern electronic laboratories.

### Features

- 1 Hz-10 MHz frequency in 7 steps
- Sine, Square, Triangle, Ramp, Pulse, TTL and serial Data Outputs
- 20 V<sub>pp</sub> output and DC Offset
- 20 × 4 character LCD Controlled by Menu keys
- 40 MHz Frequency Counter
- TTL Output
- 50 Ω Impedance
- AM Standard, AM Balance, FM, ASK, FSK, PWM Modulation
- 20, 40, 60 dB Attenuation
- Rise & Fall time £ 50 ns
- RS232 Interface

### Technical Specifications

Operating Modes (Function)	:	Sine, Square, Triangle, Ramp, Pulse, TTL and Serial Data
Frequency Range	:	1 Hz - 10 MHz Sine wave, 1 Hz - 2 MHz others
Frequency Accuracy	:	± 0.5 %
Sine wave Distortion	:	1.0 % (2 MHz), 2 % (10 MHz) typical
Square wave / Pulse	:	≤ 50ns
Rise & Fall time	:	
Pulse Duty Cycle	:	15 % - 85 % var. (min. width 200 ns)
Triangle Non-Linearity	:	≤ 1 % (typical)
Frequency Display	:	LCD controlled by Menu Keys
Output impedance	:	50Ω
Output Voltage	:	10 V <sub>pp</sub> into 50W, 20 V <sub>pp</sub> O.C.
Attenuation	:	20 dB, 40 dB (20 dB variable in between)
Level Flatness	:	± 0.5 dB (2MHz), ± 1.5 dB (10 MHz)
DC Offset	:	± 5V (approx.) adjustable
Internal Sweep	:	20 ms – 4 s variable
Modulation	:	AM Balance, AM Standard, FM, ASK, FSK & PWM Modulation
Modulation Input	:	10 V <sub>pp</sub> max.

### Modulation Generator

Operating Modes	:	Sine, Square, Triangle
Frequency Range	:	10 Hz to 100 KHz (var.)
Output	:	2 V <sub>pp</sub>
Freq. Display	:	LCD controlled by Soft keys
Freq. Accuracy	:	± 0.5 %

### Frequency Counter

Frequency Range	:	DC to 40 MHz
Resolution	:	1 Hz
Sensitivity	:	0.5 Volts
Frequency Accuracy	:	± 0.5 %
Frequency Display	:	LCD controlled by Soft keys
Input Impedance	:	1 MΩ
Max. Input Voltage	:	200 V (DC+AC Peak)
PC Interface	:	RS232 standard
Mains Supply	:	230 V ± 10 %, 50 Hz . 60 Hz on request
Power Consumption	:	17 VA (approx.)
Operating Temp.	:	0-40°C, 85 % RH
Dimensions (mm)	:	W 262 × D 316 × H 130
Weight	:	3 Kg (approx.)

### Included Accessories

BNC to BNC cable, Mains cord, Product Tutorial (CD)	:	1 no.
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