

# NEW

# 10 MHz Sweep/Function Generator with Digital Display

- 0.1 Hz to 10 MHz
- Linear and log sweep
- 5 digit LED display
- All features of Model 4011



## Model 4017

### SPECIFICATIONS

#### FREQUENCY CHARACTERISTICS

**Waveforms:** Sine, Square, Triangle,  $\pm$ Pulse,  $\pm$ Ramp

**Range:** 0.1 Hz to 10 MHz in 8 ranges

**Resolution:** 5 digits

**Tuning Range:** Coarse: 10:1, Fine  $\pm$ 5% of Coarse Setting

**Temperature Stability:** .06%/°C

**Variable Duty Cycle:** 15:85:15 Continuously Variable

**Operating Modes:** Normal, Sweep, VCG

#### OUTPUT CHARACTERISTIC

**Impedance:** 50 $\Omega$   $\pm$ 10%

**Level:** 20 V p-p Open circuit, 10V p-p into 50 $\Omega$

**Amplitude:** Variable, 20 dB range typical

**Attenuation:** -20 dB  $\pm$ 1 dB

**DC Offset:** Preset:  $\pm$ 0.1 V typical

Variable:  $\pm$ 10V open-circuit,  $\pm$  5V into 50 $\Omega$

#### SINE WAVE

**Distortion:** 0.1 Hz to 100 KHz:  $\leq$ 1%

>100KHz: Harmonics >30 dB below fundamental

#### SQUARE WAVE

**Symmetry:** 0.1 Hz to 10 MHz  $\leq$ 2%

**Rise Time:**  $\leq$ 50 nS

#### TRIANGLE WAVE

**Linearity:**  $\geq$ 98% to 100 KHz

#### TTL OUTPUT

**Level:** .8V to 2.4V

**Rise Time:**  $\leq$ 20 nS

**Duty Cycle:** 50% typical

#### CMOS OUTPUT

**Max Frequency:** 4 MHz

**Level:** 4V p-p to 14.5 p-p, Continuously variable

**Rise Time:**  $\leq$ 120 nS

#### VCG (Voltage Controlled Generator) INPUT

**Input Voltage:** 0-10V  $\pm$  1V causes a 100:1 frequency change

**Impedance:** 10K  $\pm$  5%

#### SWEEP OPERATION

**Mode:** LIN/LOG

**Width:** 100:1, Continuously variable

**Rate:** .5 sec to 30 sec, continuously variable

**Sweep Output:** 0 to 2V

#### FREQUENCY COUNTER

**Accuracy:** Time Base Accuracy  $\pm$  1 count

**Time Base Accuracy:**  $\pm$ 10 PPM (23°C  $\pm$  5°C)

**Display:** 5 digit LED

#### POWER SOURCE

120 / 230 VAC  $\pm$  10%, 50 / 60 Hz, internal jumper selectable

**Dimensions:** (HxWxD) 3-3/8 x 10-3/8 x 11-7/16" (86 x 264 x 291mm)

**Weight:** 4 LB. (1.8 kg)

#### ACCESSORIES

Output Cable, BNC to Alligator Clips  
Instruction Manual