

Global Specialties Pulse Generator - *Model 4001*

Part No. 01PG4001

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Specifications

INPUT:

Trigger/Gate, DC couples, BNC connector, TTL compatible <10MHz, max. input $\pm 10\text{Vpk}$

Impedance: 400 ohms

Sensitivity: Pulses: >40nsec wide, >2.4Vpk or sine wave >1.7Vrms.

OUTPUTS:

3 outputs, DC coupled, BNC connector.

VAR Impedance: Constant 50 ohms

VAR Amplitude: 0.5-10V into open circuit, 0.25-5.0V driving 50 ohms, variable with Amplitude control, rise/fall time less than 30 nsec.

TTL Drive: Standard TTL levels, buffered to drive up to 40 TTL loads, rise/fall time less than 20 nsec.

SYNC: +2.4V (TTL compatible pulse, buffered to drive min. 10 TTL loads).

SYNC Timing: 20 nsec pulse width, leads main outputs by >20 nsec, rise/fall less than 20 nsec.

MODES:

Run: 0.5 Hz to 5MHz continuous output pulse train; pulse width, spacing independently variable 100 nsec to 1 sec with 10:1 verniers over seven decade ranges, accurate $\pm 5\%$, calibrated at min., max. settings; jitter under 0.1% $\pm 5\text{psec}$.

Trig: Pos edge of Trigger input, DC to 10MHz, crossing 1V threshold triggers single pulse, width determined by Pulse Width controls.

MODES (continued):

Gate: Output pulse train occurs synchronous with rising leading edge of Gate input, continues while gate is high, last pulse when gate goes low completes. May also be activated manually with one-shot momentary push button.

One-Shot: Single pulse, width determined by Pulse width controls, occurs synchronous with manual activation of one-shot momentary pushbutton.

Square wave: In any mode converts output to symmetrical square wave with period equal to twice the sum of the pulse width and pulse spacing control settings.

Complement: Inverts the output; Sync out leads falling rather than rising edge.

CONTROLS:

Pulse spacing range switch and vernier, Pulse width range switch and vernier, Power, 4 Mode switches, Square wave, Complement, manual one-shot momentary pushbutton.

POWER:

105-135 VAC, 57-63 Hz, 6VA max (215-250 VAC, 50-60 Hz version available).

Dimensions: 3²H x 10²W x 7²D (76 x 254 x 178 mm)

Weight: 2.2 lbs. (1.0 kg)

Op Temp: 0-50°C (calibrated at 25°C $\pm 5\%$).