



# SPECIFICATIONS OF THE DG2A

The unit always produces a pulse to synchronise other equipment at SYNC and a pulse delayed from SYNC by DELAY controls.

## Modes

Control: Four position rotary switch.  
Movement of this control will immediately terminate any cycle and keep it in a Reset state for about 1 second.  
This is a useful feature should an exceedingly long cycle be selected by accident.

Functions: SINGLE - Input signal triggers a single Output pulse.  
FREE-RUN - Continuous Output pulses as set by REPETITION controls.  
GATED - Input signal enables unit to produce pulses as set by REPETITION controls.  
TRAIN - Input signal Triggers unit to produce pulses as set by REPETITION controls for the time as set by the DURATION controls.

## Input

Connector: BNC socket  
Levels: TTL high (>1.5V), TTL low (<0.8V)  
Polarity: Active High (GATE/TRAIN) and Positive edge (SINGLE) or Active Low and Negative edge by Internal Jumper  
Internal Jumper: Enable "Active Low" - allowing for an Input that is Low during its active phase.  
The front panel provides a check-box  for marking with a waterproof pen when enabled.  
In Active Low an external contact closure can be used.  
Push-button: Has same function as a valid input signal.  
Indicator: "TOO FAST" Red LED that flashes if a Trigger is received whilst the unit is busy.

## DURATION

Total range: 10 ms - 12 seconds in three overlapping ranges  
Control: Single turn control marked 1 - 12s with intermediate integer panel marks  
Accuracy: ±1% at '1' and '12' marks, ±5% at intermediate marks  
Multiplier: x0.01 ; x0.1 ; x1  
Internal Jumper: Enable "x10" - giving a 100 ms - 120 s total range.  
The front panel provides a check-box  for marking with a waterproof pen when enabled.

## REPETITION (Frequency)

Total range: 0.01 - 1200 Hz in five overlapping ranges  
Control: Single turn control marked 1 - 12Hz with intermediate integer panel marks  
Accuracy: ±1% at '1' and '12' marks, ±5% at intermediate marks  
Multiplier: x0.01 ; x0.1 ; x1 ; x10 ; x100

## DELAY

Total range: 1 ms - 1200 ms in three overlapping ranges  
Control: Single turn control marked 1 - 12 ms with intermediate integer panel marks  
Accuracy: ±1% at '1' and '12' marks, ±5% at intermediate marks  
Multiplier: x1 ; x10 ; x100  
Internal Jumper: Enable "x10" - giving a 10 ms - 12 s total range.  
The front panel provides a check-box  for marking with a waterproof pen when enabled.  
Indicator: "TOO LONG" Red LED that flashes if DELAY longer than can be produced for each pulse.

## Outputs - SYNC

Connector: BNC socket  
Signal: Positive going, 200µs pulse, TTL compatible pulse (5V amplitude).

## Outputs - OUT

Connector: BNC socket  
Signal: Positive going, 200µs pulse, TTL compatible pulse (5V amplitude).  
Control: Selection of only the Delayed pulse (upwards) or both the Sync and Delayed pulses.  
Indicator: Amber LED that flashes for each OUT output pulse.  
Internal Jumper: Enable "Active Low" - giving an Output that is Low during its active phase.  
The front panel provides a check-box  for marking with a waterproof pen when enabled.

## Power

Control: ON/OFF toggle. OFF is down.  
Consumption: <2mA  
Internal: PP3 - (IEC-6LR61) style. Alkaline preferred  
Battery Life: Approximately 250 Hours with Ever Ready 6LF22 or Duracell MN1604

## Dimensions

Size: 188 x 110 x 60 mm (w h d)  
Weight: 490 grams with battery fitted.

Please note that no accessories, other than a battery, are supplied.

Digitimer reserve the right to alter specifications and price without prior notification.