

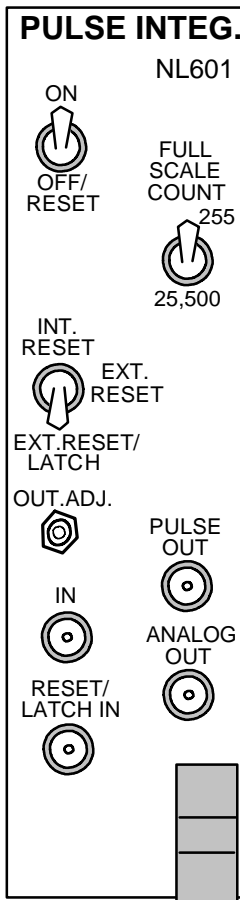
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 NL601 - Pulse Integrator
 

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**Introduction**

The **NL601 PULSE INTEGRATOR** has a digital counter which produces an analogue output proportional to the count. A pulse at the input socket increments the counter towards a full scale count of 255, 2550 or 25500 which is selectable by the front panel scale switch. The counter will continue to increment on input pulses until the unit is reset. This can be done manually (with the on, off/reset switch) or by applying a pulse to the reset socket. Alternatively, with the unit set to internal-reset, when the counter reaches full scale the unit will automatically reset.

There is one other reset function, the external reset/latch function. On a reset pulse the output will be held at the previous count level until the next reset pulse. In effect the counter is reset but the output is held at its value at the time of the pulse.

The **NL601** has two outputs -

The first is a simple pulse out when the counter reaches full scale count the output goes high until the counters are reset.

The second is the analogue output. Adjustable between 1V and 11V for full scale count (using the front panel output adjuster potentiometer) the output will increase by 1/255 (for a full scale count of 255) for every input pulse and will stay at maximum voltage for every pulse after 255 until the unit is reset.

**Specifications****Inputs**

Level	: TTL pulses
Input	: 0.5 microseconds minimum
Reset/Latch	: 0.5 microseconds minimum
Pre-scalar	: 1, 10 or 100 (255, 2550 or 25500 counts full-scale)

**Outputs**

Pulse out	: TTL
Analogue out	: Adjustable between 1V and 11V for full scale via front panel preset
Steps (levels)	: 255

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