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NL403 Delay-Width

Introduction

The NL403DELAY-WIDTH module produces complementary TTL output pulses of adjustable duration after an adjustable delay from either positive or negative-going edges of input pulses. Six switched decade ranges of delay and width are available. Within each range, output pulse duration or delay are each continuously adjustable over more than two decades using precision 10-turn potentiometers and turns counting dials. This very wide continuous adjustment is particularly useful in biological stimulation where stimulus-response relations are usually logarithmic or exponential.

Specifications

Input : TTL pulses

Output fan-out : 10 TTL inputs

Output delay range : <1 microseconds to 10 seconds

Output width range : <1 microseconds to 10 seconds

Output accuracy : $\pm 3\%$ on lower 4 ranges $\pm 10\%$ on upper 2 ranges



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Modules

Amplifiers

[NL100AK](#) Headstage
[NL102G](#) DC Pre Amplifier
[NL104](#) AC Amplifier
[NL106](#) AC/DC Amplifier
[NL107](#) Transducer Amplifier
[NL108](#) Pressure Amplifier
[NL120](#) Audio Amplifier
[NL820A](#) Isolator
[NL822/4](#) 2/4-channel Pre Amplifier
[NL850](#) Isolated pre Amplifier

Filters

[NL118](#) Octal Band-Pass Filter Amplifier
[NL125/6](#) Filters
[NL135/6](#) 4-channel Low Pass
[NL530](#) 4-channel Conditioner

Stimulators

[NL510](#) Pulse Buffer
[NL800](#) Stimulus Isolator

Digital

[NL401](#) Digital Width
[NL403](#) Delay-Width
[NL501](#) Logic Gate
[NL505](#) Flip-Flop
[NL520](#) Converter
[NL603](#) Counter
[NL606](#) Latched Counter
[NL730](#) Pulse Shift

Generators

[NL301](#) Pulse Generator
[NL304](#) Period Generator
[NL310](#) Ramp Generator

Analogue

[NL202](#) AC Single Delay
[NL253/6](#) Ratemeter
[NL410](#) Calibrator
[NL506](#) Analogue Switch
[NL700](#) Log Display
[NL701](#) Lin Display
[NL702](#) Ratemeter
[NL703](#) EMG Integrator
[NL705](#) RMS Integrator
[NL741](#) Analogue Delay

Analogue/Digital Interface

[NL201](#) Spike Trigger
[NL515](#) Interface
[NL601](#) Pulse Integrator

Computational

[NL750](#) Averager
[NL751](#) Remote
[NL752](#) Pulse Interval Histogram
[NL753](#) Arefact Rejection
[NL755](#) Serial Interface

Pressure Transducers

[NL108T1](#) Isolated

Accessories



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