

Triggering of a Stimulator at a Set Time after EMG Activity

Overview

This application note illustrates how the NeuroLog System can be used to detect features within a particular biological signal and provide an output pulse in response. Here, an amplified EMG trace is rectified and integrated by the **NL703 EMG INTEGRATOR**. When the resulting waveform reaches a set amplitude the **NL201 SPIKE TRIGGER** sends out a TTL pulse which can be delayed by a preset time by the **NL405 WIDTH/DELAY** module. This output pulse can be used to trigger an external device such as an electrical stimulator.

It is possible to substitute modules in the scheme below e.g the discontinued NL403 can replace the **NL405 WIDTH/DELAY**.

