

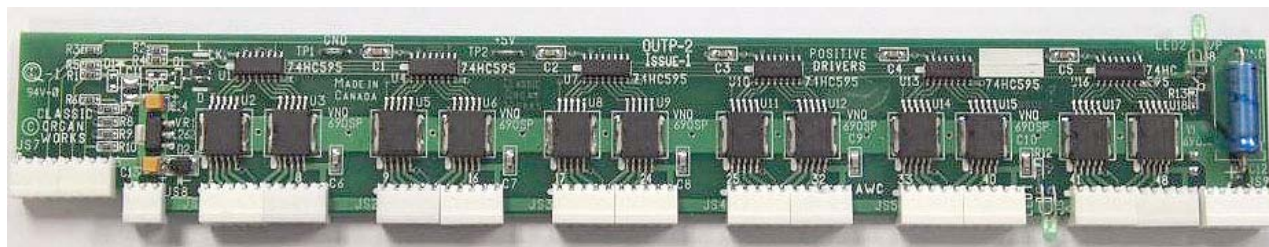
# Classic Organ Works

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## OUTP-2C High-power Magnet Driver Board



### Description

The Classic Output Driver Board (OUTP-2C) accepts standard Classic serial data and uses it to turn the appropriate output pins on or off for applications such as the magnets of a rank of organ pipes.

The board has 48 positive-going outputs for low-resistance active-high (0V common) relays and pipe chest magnets and is intended to be used in the CCU and PCU units ('Grey Boxes') as well as the MCU-1. Boards can be cascaded for more than 48 outputs.

It can drive a pipe magnet of 20 Ohms nominal minimum (steady state) or a stop-action magnet with a resistance of as low as 10 Ohms (if pulsed).

An on-board link selects either steady-state or pulsed drive to suit the application.

All output devices are protected against reversed back-emf voltages from inductive loads by built-in diodes and are overload protected.

A large capacitor on the supply line permits high-current pulsed loads when many outputs may be activated together.

Supply voltage range is +7V to +35V, nominally +12V.

### Features

- Active-high drive outputs (0V Common).
- 48 protected outputs can drive magnets, relays, motors, solenoids, LEDs and incandescent lamps (or a mix of them all).
- Output loads 20 Ohms minimum. (10 Ohms if pulsed).
- Built-in diodes protect outputs from inductive back-emf.
- Overload-protected outputs.
- Two 'Stop On' LEDs.
- Approximate dimensions: 10.15" x 1.75" x 0.6" (w x h x d) (25.7cm x 4.45cm x 1.52cm).

### Applications

While the OUTP-2C Output Board is intended to be used by organ-builders for high-side drives to pipes or stop magnets, it can also be used to operate incandescent lamps, LEDs, drive motors and solenoids for other applications such as model railroad systems.