

HENRY ENGINEERING

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DESCRIPTION

LogiConverter is a logic interface unit that facilitates remote control of studio equipment. LogiConverter creates SPDT relay outputs from opto-isolated logic-level inputs. Four channels of control are provided. They can operate independently for 'start-only', or in pairs for 'start-stop' operation. Each channel can be user-programmed to generate momentary or maintained relay closure outputs with several modes of input control.

INSTALLATION

Connection to the four LogiConverter inputs is via the 'D' connector. All inputs are opto-isolated. Input voltages should be between 5 and 24 vdc. For connection to equipment that provides 'open collector' (ground-sink) interface, connect the '+' input to any terminal marked '+ 12V' on the D connector. Connect the '-' input terminal to the open collector, and connect any LogiConverter GND terminal to the emitter. All LogiConverter relay outputs are connected via the 12-terminal barrier strip on the unit.

PROGRAMMING

LogiConverter has 24 possible modes of operation...read carefully!

The four input/output channels can operate independently (start-only) or in pairs (start-stop). If start-stop pairs are selected, channels 1 and 2 are paired, and channels 3 and 4 are paired. The various modes are determined by 8 'dip switches' within the unit, referred to as SWI through SWB. (See parts layout.) The functions of SWI through SWB are detailed below:

SW1	Selects	input mode of Chan. 1	SW5	Selects input mode of Chan. 3	
SW2	Selects	input mode of Chan. 2		Selects input mode of Chan. 4	
SW3	Selects	output mode of Chan. 1		Selects output mode of Chan. 3	
SW4	Selects	output mode of Chan. 2		Selects output mode of Chan. 4	

The first four switches (SWI-SW4) affect channels 1 and 2; SW5-SW8 affect channels 3 and 4 identically.

Each channel has an 'input mode' switch associated with it. Chan. 1 has SW1, and Chan. 2 has SW2. Since channels 1 and 2 can operate as a pair, these switches affect both inputs.

For independent (start-only) operation, both SW1 and SW2 must be OFF. An input at Chan. 1 will produce an output at Chan. 1; an input at Chan. 2 will produce an output at Chan. 2. There is no interaction.

There are two modes of paired (start-stop) operation: Non-Latching and Latching. If Non-Latching is selected, an input at Chan. 1 will cause an output at Chan. 1. Removing the input from Chan. 1 will cause an output at Chan. 2. This mode is recommended for maintained input signals only. To select this mode, SWI should be OFF and SW2 should be ON. The Chan. 2 input is not used with this mode.

If Latching operation is programmed, an input at Chan. 1 will cause an output at Chan. 1. Additional inputs to Chan. 1 will produce <u>no</u> output; an input at Chan. 2 must be applied to reset the Latch, which will also cause an output at Chan. 2. To select this mode, SW1 <u>and</u> SW2 must be ON.

Each channel has an 'output mode' switch: Chan. 1 has SW3 and Chan. 2 has SW4. If SW3 is OFF, the Chan. 1 output relay will produce a momentary closure. If SW3 is ON, the relay closure will be maintained for the duration of the input signal. SW4 affects Chan. 2 in the same way, as does SW7 for Chan. 3 and SW8 for Chan. 4.

"D" CONNECTOR PIN-OUTS FOR ALL INPUTS

PIN		Input	1,	+	PIN	7	Input 4, +	PIN 13 +12V
PIN	2	Input	1,	_	PIN		Input 4, -	PIN 14 GND
PIN	3	Input	2,	+	PIN		+12V	PIN 15 +12V
PIN	4	Input	2,	-	PIN	10	GND	1121
PIN	5	Input	3,	+	PIN	11	+12V	All inputs: 5-24vdc.
PIN	6	Input			PIN	12	GND	200ms length minimum.

