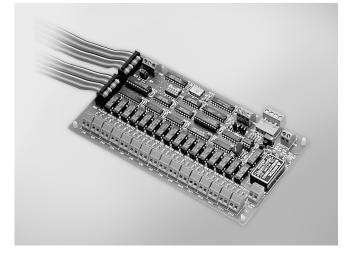
PCLD-788

16-ch Relay Multiplexer Board



Features

- 16 to 1 channel expansion
- Differential and fully isolated multiplexing •
- Break-before-make relay control
- "Channel closed" signal for precise A/D triggering •
- Up to 16 PCLD-788s can be cascaded for 256 channels
- Easy wiring for large channel count configuration
- Onboard cold-junction circuitry for thermocouple measurement •

Introduction

PCLD-788 multiplexes 16 channels into a single I/O channel of an A/D converter, voltmeter or IEEE-488-based instrument. Up to 16 PCLD-788s can be cascaded for a total of 256 fully-isolated differential channels. The PCLD-788 can be controlled by any PC-LabCardTM product via a 16-bit 20-pin digital output port, found on cards such as the PCL-711B, PCL-812PG or the PCL-818 series. Channel selection (0-15) and board selection (0-15) are done by programming the high-order four bits and low order four bits of a digital output byte from the main I/O card in use.

Specifications

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- Channel Closed Signal TTL-level pulse
- Cold-junction Sensor +24.4 mV/° C, 0 V at 0° C
- Output
- Contact Rating Break-before-make with 3 msec. minimum break time
- Contact Resistance $200 \text{ m}\Omega \text{ max}.$
- Input Channels 16 isolated differential inputs
- D0 bit 0, 1, 2 and 3 for channel selection, D0 bit 4, 5, Programming 6 and 7 for board selection. Onboard DIP switches for board-address setting 100 V_{DC} or 100 V peak AC
- Max. Input Voltage
- Max. Switching Current 0.5 A
- Max. Switching Power 10 VA
- Operating Time 1 ms max.
- Relay Life Expectancy 100 million cycles min. at 10 V_{DC} and 1 mA
- Release Time 1 msec. max.

General

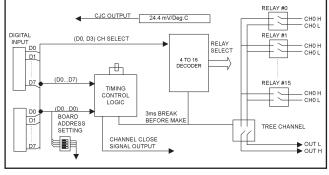
- Certifications
- Connectors Controller.

I/0:

2 x 20-pin box header, second connector in parallel for daisy chaining Screw terminals

CE

- Dimensions (L x W) 205 x 114 mm (8" x 4.5")
- Mounting
- 4 x screw holes for flat surface mounting +5 V @ 380 mA max.
- Power Consumption



PCLD-788 Block Diagram

Pin Assignments

CN2 & CN3			
C0	1	2	C1
C2	3	2 4	C3
C4	5	6	C5
C6	7	8	C7
	9	10	
	11	12	
	13	14	
	15	16	
GND	17	18	GND
+5V	19	20	+12V

Ordering Information

- PCLD-788
- PCL-10120-1
- 16-ch Relay MUX Board w/ Two 20-pin Flat Cables 20-pin Flat Cable, 1 m 20-pin Flat Cable, 2 m
- PCL-10120-2

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