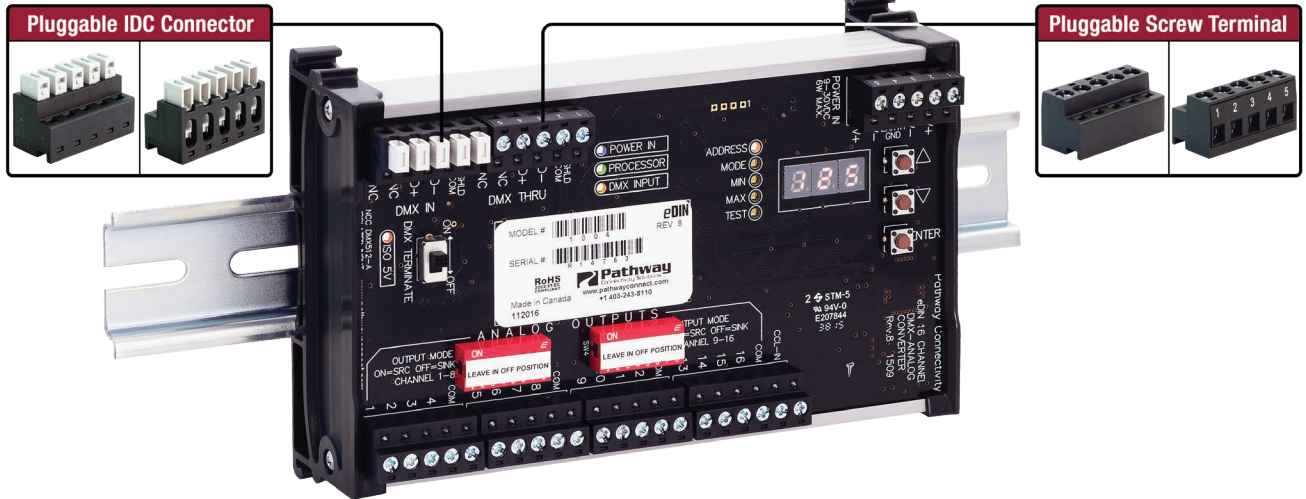


DEMULTIPLEXER, 16 CHANNELS, eDIN

#1004



PRODUCT OVERVIEW

The 1004 converts DMX512 to 16 channels of analog DC output voltage. Diode shunts allow user-selection between current sourcing applications - typically for legacy theatrical dimmers - or current-sinking control - typically for LED fixture drivers or 4 wire electronic fluorescent ballast control.

Field configurable through front panel or by RDM.

FEATURES

- DMX512 start address and operating mode may be set from front panel interface or remotely using E1.20 RDM
- Indicator LEDs for power, processor, and DMX input status
- Standard DC output modes of 0-10V, 0-15V, 0-2.5V, or 0-5V
- Custom mode allows user-set minimum and maximum DC output up to 16V
- Maximum current rating per output of 10mA (sourcing) or 30mA (sinking)
- CCL "Panic Input" drives all outputs to full
- Pluggable terminal blocks for power and analog output accept solid or stranded wire between #26 and #16 AWG
- One DMX512-A/RDM data input connection
- Data and power easily daisy-chained between modules
- DMX line termination switch
- Firmware field-upgradeable using RDM (requires Pathway Pathport gateway and Pathscape software)

SPECIFICATIONS

- 1500V opto-isolation between DMX input and analog outputs
- 250V fault protection on DMX input port
- Input operating voltage: 9-30VDC
- 6W power consumption
- Operating Conditions: 14°F-118°F (-10°C to 48°C); 10-90% relative humidity, non-condensing

STANDARDS COMPLIANCE

- ANSI E1.11 DMX512-A(2008)/USITT DMX512(1990)
- ANSI E1.20 RDM(2010) - Remote Device Management
- ANSI E1.3 0-10V Analog Control (with diode shunts on)
- ANSI C82.11 Fluorescent Ballast Control (diode shunts off)
- RoHS 2011/65/EU
- CE
- Class 2 Low Voltage

WEIGHTS AND DIMENSIONS

- 0.7 lbs (0.316 kg)
- 6.25"W x 4"H x 1.55"D (159mm x 103mm x 40mm)

INCLUDED FURNISHINGS

- DIN tray (housing) with end caps
- 11" (280mm) x 35mm DIN rail
- Installation/Operations manual

OPERATING MODES

- **MODE 1: 0-10VDC Output**
- **MODE 2: 0-5VDC Output**
- **MODE 3: 0-15VDC Output**
- **MODE 4: 0-2.5VDC Output**
- **MODE 5: Custom Output:**

The user may set both a minimum output voltage and a maximum output voltage. Valid DC voltage output range is 0VDC to 16VDC. Values are set as an 8-bit number (0-255). Valid minimum levels are between 0 and 254. Valid maximum levels are between 1 and 255. For example, a value of 158 is equal to an output of 10V. Custom values are not maintained in other operating modes, and do not apply to modes 6, 7 and 8.

- **MODE 6: Electronic fluorescent ballast/LED driver control - 10% threshold**

Outputs are paired (1 and 9, 2 and 10, etc.) for unified control of up to eight circuits of LED fixture drivers or Mark VII-type fluorescent ballast controllers. A single DMX controls the 0-10V of the lower output, while causing the higher output to provide on/off control of a solid state relay as the DMX value increases or decreases through the threshold. A 12VDC power supply is required.

- **MODE 7: Non-Dim:**

Provides on/off control of solid states relays. At a DMX value of 0%, an output will produce 10V. When the DMX value crosses 50%, the output voltage drops to 0V. Blocking diodes must be shunted (switches in the off position). A 12VDC power supply is required.

- **MODE 8: Electronic fluorescent ballast/LED driver control - 1% threshold**

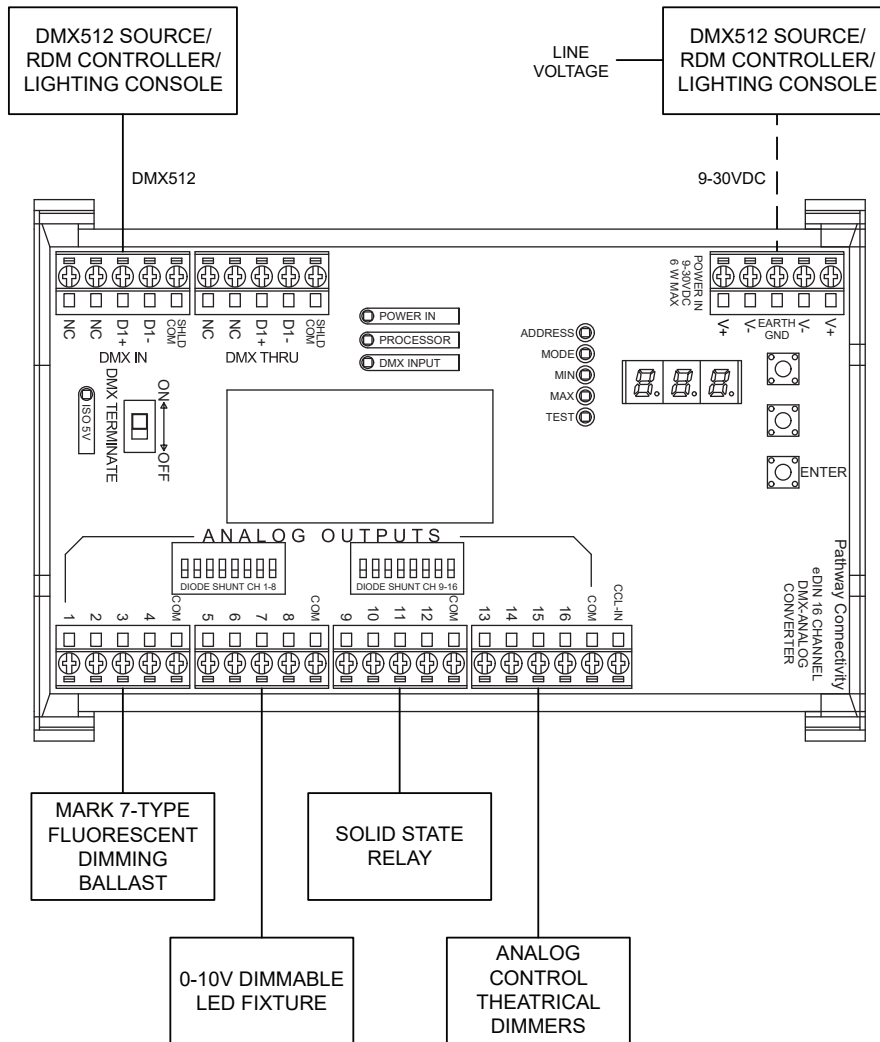
Outputs are paired (1 and 9, 2 and 10, etc.) for unified control of up to eight circuits of LED fixture drivers or Mark VII-type fluorescent ballast controllers. A single DMX channel controls the 0-10V of the lower output, while causing the higher output to provide on/off control of a solid state relay as the DMX value increases or decreases through the threshold. A 12VDC power supply required.

DMX PIN OUTS

	XLR PIN #	PURPOSE
DMX512/RDM PINOUT: FOR SHIELDED TWISTED PAIR	1	Shield
	2	Data - (complement)
	3	Data + (true)
	4	Not Used
	5	Not Used

	XLR PIN #	CAT5/6 Pin # and Color	PURPOSE
DMX512/RDM PINOUT: FOR CAT 5/6	3	1 - White/Orange	Data 1 + (true)
	2	2 - Orange	Data 1 - (complement)
	5	3 - White/Green	Not Used
	4	6 - Green	Not Used
	-	4 - Blue	Not Used - do not connect
	-	5 - White/Blue	Not Used - do not connect
	1	7 - White/Brown	Shield/COM
	1	8 - Brown	Shield/COM

APPLICATION RISER



ORDERING INFORMATION

PART #	DESCRIPTION
1004	Pathway Demultiplexer, 16 Channels, eDIN
ACCESSORIES	
1001-050-24-DIN	50 Watt, 24VDC Power Supply, eDIN
1103	eDIN Rack Mount Panel, 2RU high, two 16.5" DIN Rail
1105	eDIN System Enclosure 10" x 13" x 4.5" c/w One 9" Vertical DIN Rail
1106	eDIN System Enclosure 10" x 23" x 4.5" c/w One 19" Vertical DIN Rail
1107	eDIN System Enclosure 10" x 23" x 4.5" c/w Three 9" Horizontal DIN Rail
1108	eDIN System Enclosure 10" x 13" x 4.5" c/w Two 9" Horizontal DIN Rail
1109	Expanded eDIN System Enclosure 18.5" x 31.5" x 6.5" c/w Three 24" Vertical DIN Rail, One 18" DIN Rail in Class 1 section, two 3-gang knockouts in removable door