

DMX INTERFACE

24-CHANNEL ANALOG TO DMX



Model shown: PWINF DIN A2D

WARRANTY

3-year limited warranty. Complete warranty terms located at: <https://www.acuitybrands.com/support/warranty>

NOTE

Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

OVERVIEW

Pathway DMX Interfaces provide a flexible way of creating custom solutions to DMX control challenges.

The 24-Channel Analog to DMX converts 24 analog 0-10VDC sources or 24 dry contact closure inputs into a DMX512 signal. A built-in DMX merger combines signal output with other DMX512 lighting consoles, controllers or additional Analog to DMX units.

The Analog to DMX can also be used as a simple snapshot playback device, holding up to 24 "looks" that can be triggered by contact closure.

Compact and DIN-rail mountable, the Pathway 24-Channel Analog to DMX is field configurable through its front panel, or through RDM by using free Pathscape configuration software.

FEATURES

- Convert analog 0-10VDC levels to DMX512
- Alternate Contact Closure mode, for off/full DMX512 control
- Recall mode allows capture and playback of up to 24 discrete, full-universe looks
- Built-in merger allows in-line operation with other DMX sources in either recall or input modes
- DMX512 start address and operating mode configurable from front panel or remotely using RDM
- Indicator LEDs for Power, Processor, DMX Input status, and CCI Mode
- Test function in both analog input and contact closure modes
- DMX line termination switch
- Data and power easily daisy-chained to other DIN Interface units
- One DMX Input, one DMX Thru connection, and one DMX Out

ORDERING INFORMATION

PWINF		EXAMPLE: PWINF DIN A2D	
Series	Form Factor	Control Type	
PWINF Pathway DMX Interface	DIN DIN-mount	A2D	24 Channel Analog to Digital (6.25")

Accessories

PWPWR DIN TERM 50W 24VDC	Power Supply, DIN-mount, Compression Fit Terminal, 50 Watts, 24 Volts DC	PWENC MED HOR	DIN System Enclosure, Medium 10" x 23" x 4.5", Horizontal Rails
PWENC SHELF HOR	DIN System Enclosure, 2-RU Shelf unit with 2x16.5", Horizontal Rails	PWENC LRG VER	DIN System Enclosure, Large 18.5" x 31.5" x 6.25", Vertical Rails
PWENC SML VER	DIN System Enclosure, Small 10" x 13" x 4.5", Vertical Rails	PWCON SPARE IDC5 Q4	Connector, Spare, 5-Pin Insulation Displacement Contact Connector, (Qty 4)
PWENC MED VER	DIN System Enclosure, Medium 10" x 23" x 4.5", Vertical Rails	PWCON SPARE CSC5 Q4	Connector, Spare, 5-Pin Compression Screw Connector, (Qty 4)
PWENC SML HOR	DIN System Enclosure, Small 10" x 13" x 4.5", Horizontal Rails		

SPECIFICATIONS

Electrical

Input Ratings	9-30VDC power input 5W maximum power consumption
Isolation & Fault Protection	1500V isolation between DMX output and analog/contact inputs 250V fault protection on DMX port
Regulatory Compliance	CE

Mechanical

Dimensions	6.25" W x 4" H x 1.85" D (159mm W x 103mm H x 47mm D)
Weight	0.7 lbs (0.32 kg)
Mounting Interface	35mm x 7.5mm DIN rail

Environmental

Operating Temperature	14°F to 113°F (-10°C to 45°C)
Relative Humidity	5-95%, non-condensing
Standard Compliance	RoHS 2011/65/EU + A1 2015/863

General

Compliance	ANSI E1.11 DMX512-A R2013 ANSI E1.20 RDM - Remote Device Management ANSI E1.3 0-10V Analog Control Class 2 Low Voltage
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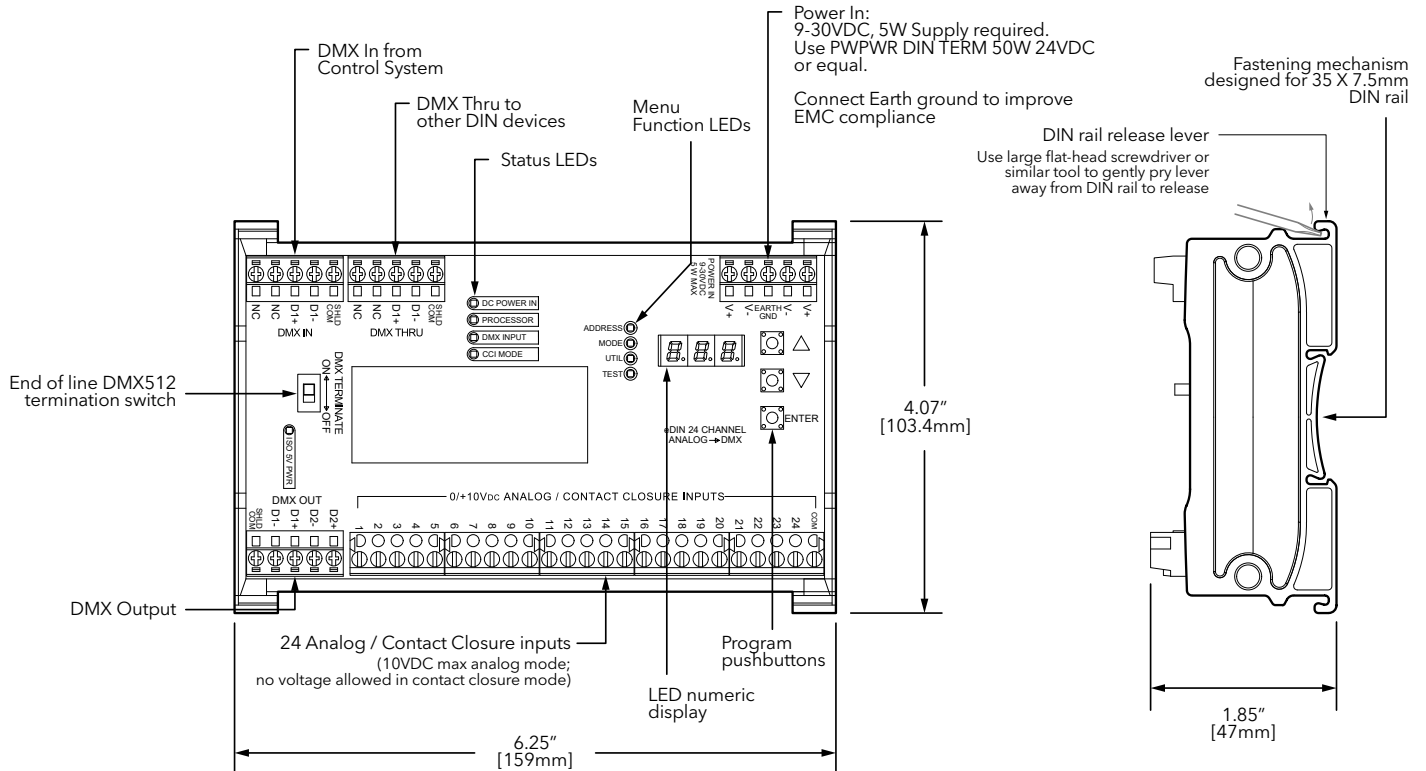
PART NUMBER CROSS-REFERENCE

PREVIOUS		NEW
Part Number	Catalog Number	Description
1006	PWINF DIN A2D	DMX Interface, DIN-mount, 24 Channel Analog to Digital (6.25")

WIRING

DMX512 / RDM PINOUT		
Purpose	XLR / Terminal Block Pin #	RJ45 PIN # and Wire Color
Shield / Common	1	7 - White / Brown
Data - (complement)	2	2 - Orange
Data + (true)	3	1 - White / Orange
Not Used	4	6 - Green
Not Used	5	3 - White / Green
Not Used - Do Not Connect	N/A	4 - Blue
Not Used - Do Not Connect	N/A	5 - White / Blue
Not Used - Do Not Connect	N/A	8 - Brown

DIMENSIONS

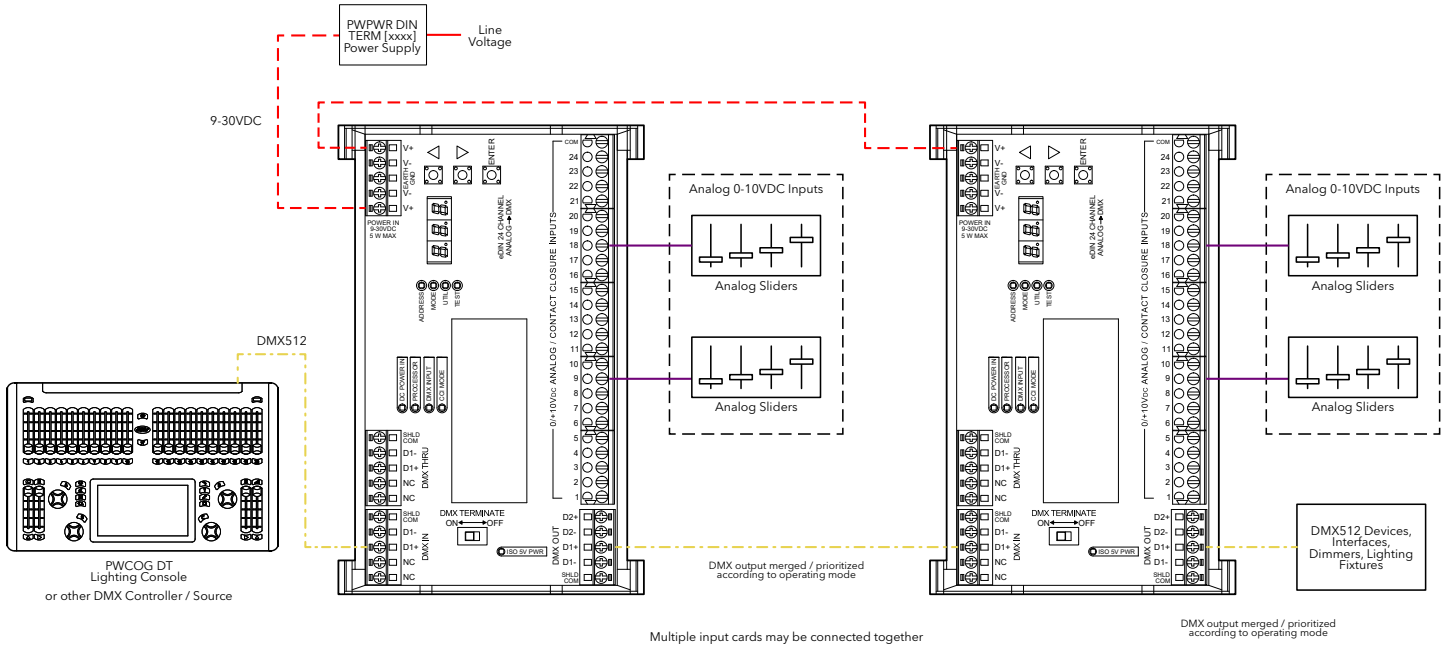


OPERATING MODES

Mode 1: 0-10V Analog In Highest Takes Precedence (HTP)	The highest level present on the analog input OR the DMX512 input for a given control slot is the level that will be present on the DMX512 output.
Mode 2: 0-10V Analog In Analog Takes Precedence (Analog Priority)	If the analog input level for a given slot is 4% or greater (8-bit value greater than 10), the DMX512 output for that slot will reflect the analog input value, and the corresponding DMX512 input value will be ignored. If the analog input value for a given slot is less than 4% (8-bit value less than 11), the DMX input level will determine the output level for that slot.
Mode 3: 0-10V Analog In DMX Takes Precedences (DMX Priority)	Whenever the DMX512 input data stream is present at the DMX Input, the DMX input levels will determine the DMX512 output levels of all slots, and all analog input levels will be ignored.
Mode 4: Contact Closure Input	Whenever a given contact input is closed for a given slot (input shorted to common), the DMX512 output for that slot will be 100% (8-bit value 255). When the contact input is open, the output for that slot will be determined by the DMX input level, if present.
Mode 5: Snapshot Recall	When a given contact input is closed momentarily (input shorted to common), the corresponding recorded snapshot will be activated on a cross-fade time of 5 seconds. All 512 possible DMX slots are stored for each snapshot. A recalled snapshot will be HTP (highest takes precedence) merged, on a slot-by-slot basis, with any DMX input present on the DMX Input port.
Mode 6: DMX Takes Precedence over Preset Recall	Whenever DMX512 is present at the DMX Input port, the DMX input levels will determine the DMX output levels, and all recalled snapshots will be ignored.

APPLICATION RISER

Analog Input



Contact Closure Input

