

CATALOG NUMBER	
DATE	
PROJECT	

REPEATER RACK-MOUNT DMX/RDM OPTO-SPLITTER



Models shown: 1. PWREP RM P8 XLR5F FRONT NONRDM 2. PWREP RM P8 [xxxx] REAR RDMHUB

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.



Pathway Pro marked products are geared for advanced entertainment lighting system applications and are available only to authorized buyers.

OVERVIEW

The Pathway DMX Repeater series of opto-splitters are an essential component of DMX distribution systems, permitting star-wiring configurations while isolating and protecting equipment from electrical faults.

RDM Hub models provide Ethernet-type intelligence features on a pure DMX512 network. The front panel allows the unit to be used as an RDM controller.

Other advanced features include input sensing, prioritization between two controllers, or HTP merging of two sources with one source able to roam - ideal for incorporating remote focus units.

FEATURES

Non RDM Models

- 8 DMX512 Outputs
- 1 DMX512 Input, 1 Passive DMX512 Thru
- DMX line termination switch

RDM Hub Models

- 8 bi-directional DMX512 Ports
- Three modes: RDM, Merge, and Hub
- Fully configurable from the front panel interface
- RDM Discovery and end device management from the front panel
- RDM enable/disable on a port-by-port basis
- Merge two controllers without additional equipment
- Automatically switch a console between locations by simply unplugging and replugging the console
- User-configurable DMX output speed and signal loss behavior

Common Features

- Gold-plated XLR Contacts
- No fuses self-resetting port protection recovers from voltage faults
- Truss-mount (PWACC TMLG) and Wallmount (PWACC WMLG) accessory kits available
- Silent, fan-less operation
- Rack-mount ears included
- Also available in DIN-mount (PWREP DIN) and Wall-mount (PWREP WM) form factors

ORDERING INFORMATION

PWREP EXAMPLE: PWREP RM P8 XLR5F REAR RD									5F REAR RDMHUE		
Series Form Factor		Port Quantity		Port Type		Port Location		Model			
PWREP	Pathway DMX Repeater	RM	Rack-mount	P8	8 DMX Ports	XLR5F	XLR 5-Pin Female	FRONT	Ports on Front Panel	NONRDM	DMX Only
						XLR3F1	XLR 3-Pin Female	REAR Ports on Rear Panel RDMHUB	Merge, Priority, HTP and Hub, RDM		
						TERM	Compression-Fit Terminal				Compliant
						RJ45EC	RJ45 etherCON				

PWCON PH5 CSC5 Q12 Connector, 5-Pin Phoenix, 5-Pin Compression Screw Connector, (Qty 1) PWCON PH5 IDC5 Q12 Connector, 5-Pin Phoenix, 5-Pin Insulation Displacement Contact Connector, (Qty 1) PWACC WMLG Pathway Accessories Large Rack-mount to Wall-mount Kit PWACC TMLG Pathway Accessories Large Rack-mount to Truss-mount Kit

Notes

- 1. XLR3F available on NONRDM models only.
- 2. PWCON PH5 are optional connector accessories for TERM REAR models. See below for drawing.



SPECIFICATIONS

Electrical Input Ratings 100-240VAC, 50/60Hz wide-range power input

0.08A max power consumption

Isolation & Fault Protection 3000V isolation between DMX data links

250V fault protection on DMX ports

Regulatory Compliance UL

CE

Mechanical Dimensions 17" W x 1.7" H x 7.0" D (433mm W x 43mm H x 178mm D)

Weight 5.2 lbs (2.4 kg) [base device, without rack mounting hardware]

Environmental Operating Temperature 14°F to 122°F (-10°C to 50°C)

Relative Humidity 5-95%, non-condensing

Standard Compliance RoHS 2011/65/EU + A1 2015/863

General CompliancePWREP RM P8 NONRDM
ANSI E1.11 DMX512-A R2013

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PWREP RM P8 RDMHUB ANSI E1.11 DMX512-A R2013

ANSI E1.20 RDM - Remote Device Management

PART NUMBER CROSS-REFERENCE

PREVIOUS	NEW	
Part Number	Catalog Number	Description
9014	PWREP RM P8 XLR5F REAR NONRDM	DMX Repeater, Rack-mount, 8-Ports, XLR 5-Pin Female, Rear Panel Connectors, DMX Only
9014-3	PWREP RM P8 XLR3F REAR NONRDM	DMX Repeater, Rack-mount, 8-Ports, XLR 3-Pin Female, Rear Panel Connectors, DMX Only
9015	PWREP RM P8 TERM REAR NONRDM	DMX Repeater, Rack-mount, 8-Ports, Compression Fit Terminal, Rear Panel Connectors, DMX Only
9016	PWREP RM P8 XLR5F FRONT NONRDM	DMX Repeater, Rack-mount, 8-Ports, XLR 5-Pin Female, Front Panel Connectors, DMX Only
9016-3	PWREP RM P8 XLR3F FRONT NONRDM	DMX Repeater, Rack-mount, 8-Ports, XLR 3-Pin Female, Front Panel Connectors, DMX Only
9017	PWREP RM P8 RJ45EC REAR NONRDM	DMX Repeater, Rack-mount, 8-Ports, RJ45 EtherCON, Rear Panel Connectors, DMX Only
9018	PWREP RM P8 RJ45EC FRONT NONRDM	DMX Repeater, Rack-mount, 8-Ports, RJ45 EtherCON, Front Panel Connectors, DMX Only
9114 (Repeater Pro)	PWREP RM P8 XLR5F REAR RDMHUB	DMX Repeater, Rack-mount, 8-Ports, XLR 5-Pin Female, Rear Panel Connectors, Merge, Priority, HTP and Hub, RDM Compliant
9115 (Repeater Pro)	PWREP RM P8 TERM REAR RDMHUB	DMX Repeater, Rack-mount, 8-Ports, Compression Fit Terminal, Rear Panel Connectors, Merge, Priority, HTP and Hub, RDM Compliant
9116 (Repeater Pro)	PWREP RM P8 XLR5F FRONT RDMHUB	DMX Repeater, Rack-mount, 8-Ports, XLR 5-Pin Female, Front Panel Connectors, Merge, Priority, HTP and Hub, RDM Compliant
9117 (Repeater Pro)	PWREP RM P8 RJ45EC REAR RDMHUB	DMX Repeater, Rack-mount, 8-Ports, RJ45 EtherCON, Rear Panel Connectors, Merge, Priority, HTP and Hub, RDM Compliant
9118 (Repeater Pro)	PWREP RM P8 RJ45EC FRONT RDMHUB	DMX Repeater, Rack-mount, 8-Ports, RJ45 EtherCON, Front Panel Connectors, Merge, Priority, HTP and Hub, RDM Compliant



WIRING

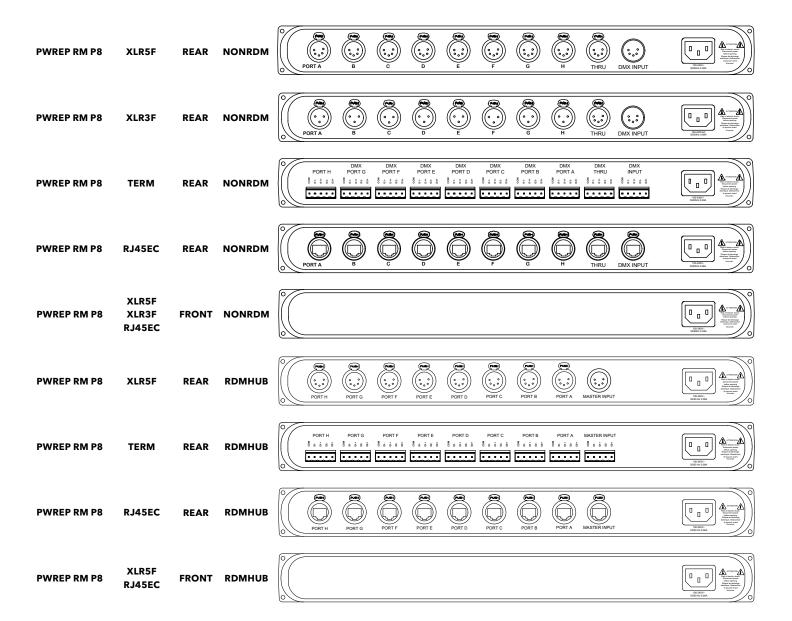
DMX512 / RDM PINOUT							
Purpose	XLR / Terminal Block Pin #	RJ45 PIN # and Wire Color					
Shield / Common	1	7 - White / Brown					
Data - (complement)	2	2 - Orange					
Data + (true)	3	1 - White / Orange					
Not Used	4	6 - Green					
Not Used	5	3 - White / Green					
Not Used - Do Not Connect	N/A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

FRONT PANEL

PWREP RM P8	XLR5F XLR3F TERM RJ45EC	REAR	NONRDM	DMX REPEATER BANKY DIAK CPTO SPLITTER	DMX IN O DOWNER O	M A OUTPUT O POWER O	B O O	c 0 0	D O O	E O O	F O O	G O	н О О
PWREP RM P8	XLR5F	FRONT	NONRDM	DMX REPEATER SHARY DAX OPTO SPLITTER	DMX IN O TERM OF ONE OF O	THRU OUTPUTO OUTPUTO	B CONTRACTOR						
PWREP RM P8	XLR3F	FRONT	NONRDM	DMX REPEATER B-WAY DIMX OPTO BIPLITER	DMX INO O O O O O O O O O O O O O O O O O O	THRU CUTPUT O COMPONER O	B						H O O
PWREP RM P8	RJ45EC	FRONT	NONRDM	DMX REPEATER SHARY DMX OPTO SPLITTER	DMX IN O INPUT	A COUTPUT O COUTPUT O POWER O							
PWREP RM P8	XLR5F TERM RJ45EC	REAR	RDMHUB	DMX REPEATER PROSERS ROMERSPYRO									
PWREP RM P8	XLR5F	FRONT	RDMHUB	DMX REPEATER PROCESSES ROMESSAFFED			MASTER INPU	(O O O O O O O O O O O O O O O O O O O	PORT B PO	RT C PORT			ORT G PORT H
PWREP RM P8	RJ45EC	FRONT	RDMHUB	DMX REPEATER PROFESSION SIMPLES SIMPLE			MASTER INPU	IT PORT A	PORT B PO	RT C PORT	D PORT E	PORT F P	ORT G PORT H

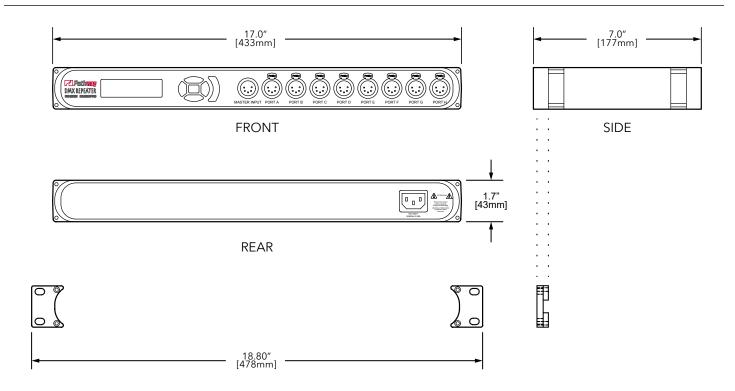


REAR PANEL



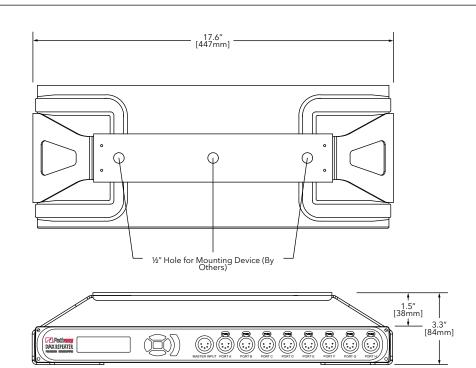


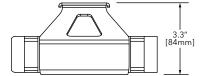
DIMENSIONS



TRUSS & WALL MOUNT ACCESSORIES



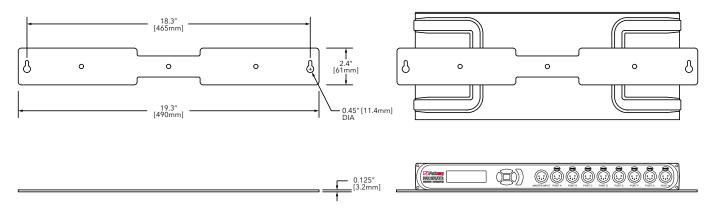






TRUSS & WALL MOUNT ACCESSORIES

PWACC WMLG Large Wall-mount Kit



PHEONIX TERMINAL CONNECTOR ADAPTER ACCESSORIES

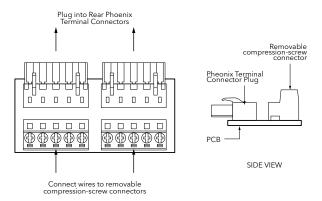
The PWCON PH5 Pheonix Terminal Connector Adapters are optional accessories that consist of a set of 5-pin Pheonix terminal plugs mated to a removable pair of either compression-screw or insultation-displacement contact (IDC) connectors.

This allows the same wiring to be swapped between rack-mount and DIN-mount repeaters and other gear without changing the connector.

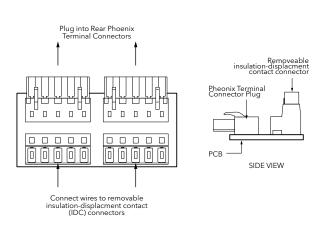
All TERM REAR models ship with 5-pin Pheonix compression-screw terminals.

PWCON PH5 [CSC5/IDC5] Q1 must be ordered separately. Each unit will fit 2 Rear TERM ports.

PWCON PH5 CSC5 Q1



PWCON PH5 IDC5 Q1





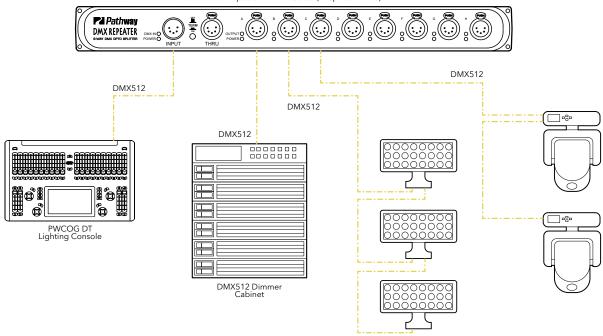
APPLICATION RISER

DMX Splitter

PWREP RM P8 XLR5F FRONT NONRDM DMX Repeater Opto-splitter

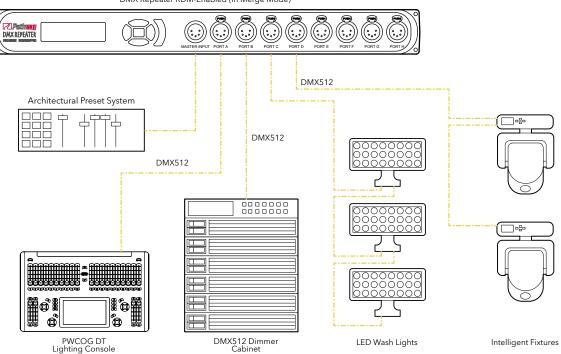
OR

PWREP RM P8 XLR5F FRONT RDMHUB DMX Repeater RDM-Enabled (In Splitter Mode)



RDMHUB Model Merge Mode

PWREP RM P8 XLR5F FRONT RDMHUB DMX Repeater RDM-Enabled (In Merge Mode)





APPLICATION RISER

