P3 PowerPort 1000 IP Install

OUTDOOR POWER & DATA UNIT FOR MARTIN CREATIVE LED

SPEC SHEET

HIGHLIGHTS

- Power and data processor for all Martin's fixed-installation creative LED video products
- Flexible integration: can be located remotely, indoors or outdoors
- Easy cabling and configuration

OVERVIEW

The P3 PowerPort 1000 IP Install is an integrated power supply and data processor for Martin's range of creative LED video products, including the Exterior PixLine™, Exterior Dot-HP™ and VC-Dots™. When driven by one of Martin's award-winning P3™ System Controllers™, it combines stable power delivery with high-speed, high-capacity video processing. Setup and configuration are easy and intuitive. A full outdoor rating and optional fiber interface make the product perfect for permanent outdoor installations.

KEY MESSAGES

EASY CABLING

The P3 PowerPort connects with the Creative LED fixtures using a single cable that carries both power and data, greatly simplifying the installation.

AUTOMATIC SETUP

There is no need to configure any IP address or settings on the P3 PowerPort. All setup and configuration is done automatically from the Martin P3 System Controller.

SIMPLE CONTROL INTERFACE

A single push-button allows for easy and fast local testing and diagnostics of the connected fixtures. The control interface also includes status LEDs for power and data for each of the four outputs.

DISCREET & ROBUST HOUSING

The P3 PowerPort 1000 IP Install comes in a robust IP66 waterproof housing, designed to withstand any harsh outdoor environment. It is also available in customizable housing colors to allow for discreet installation.

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FEATURES

- P3 image processing technology
- Set-up and addressing via P3 System Controller family
- No local configuration needed
- P3 input and thru to allow daisy-chaining
- Optional fiber-interface
- 4 hybrid power/data output ports
- Wall-mountable or free-standing
- Can be located up to 50 m away from the creative LED video products
- IP66 rated

ORDERING INFORMATION

- Martin P3 PowerPort™ 1000 IP Install ..... P/N 90721080

INCLUDED ITEMS

- Cable glands

RELATED ITEMS

- Martin P3-050™ System Controller..... P/N 90721090
- Martin P3-150™ System Controller..... P/N 90721015
- Martin P3-300™ System Controller..... P/N 90721060
- Martin P3-PC™ System Controller.... Free download at martin.com

POWERPORT COMPARISON

	Indoor	Outdoor
P3 Control	P3 PowerPort 1500 (4x360W)	P3 PowerPort 1000 IP (4x240W)
DMX Control	DMX PowerPort 375 (1x360W)	IP66 PSU 240W (1x240W)

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TECHNICAL SPECIFICATIONS

CONTROL AND PROGRAMMING

Addressing and status ..... Via P3 System Controller
Mapping ..... Via P3 System Controller
Firmware update ..... Via P3 System Controller

CONTROL/USER INTERFACE

Device status ..... Multicolor status LED
Power output status ..... Four LEDs
Data output status ..... Four LEDs
Device test and reset ..... Pushbutton to call up local test patterns and reset device

Status LEDs and pushbutton can be disabled remotely if required.

P3 SIGNAL PROTOCOL

Signal type ..... Gigabit Ethernet
Protocol ..... Proprietary Martin P3
Hot pluggable ..... Yes, electrically isolated at all connections
Cable type ..... Ethernet, CAT 5e or better
Cable length ..... Up to 100 m (328 ft.) between any 2 devices, extendable with Ethernet switch or conversion to fiber

SYSTEM INTEGRATION

VDO Sceptron™
VDO Fatron™
VDO Dotron™
VC-Dot™ family via VC-Feeder™
VC-Grid™ family
VC-Strip™ family
Exterior PixLine™ family
Exterior Dot-HP™ family

CONSTRUCTION

Housing ..... Aluminum
Color ..... Alu grey (customized colors available on project basis)
Protection rating IP66
NEMA enclosure rating ..... Type 3
Effective Projected Area (EPA) 0.21 m2
RoHS compliant

INSTALLATION

Mounting ..... Brackets for installation on flat surface
Orientation ..... Any, except with cable glands facing up or lid facing down

CONNECTIONS

Power input ..... Cable gland (M20), internal screw terminals
P3 data in/out ..... Two cable glands (M16), two internal RJ45 connectors (if fiber-to-Ethernet converter is installed, one cable gland can be used for fiber)
Combined power & data out ..... Four cable glands (M16), internal screw terminals

M16 cable glands accept 5.5 - 10 mm cable, M20 glands accept 8-13 mm cable.

ELECTRICAL

AC power ..... 120-277 V nominal, 50/60 Hz
Power supply unit ..... Auto-ranging electronic switch-mode
Typical total power consumption ..... 1000 W (including full load of connected display devices, all at full intensity)
Typical half-cycle RMS inrush current ..... 20.9 A
Total power consumption in idle state (at 25° C, all connected devices powered off) ..... 22 W

THERMAL

Cooling ..... Convection
Maximum ambient temperature (Ta max.) ..... 55° C
Minimum ambient temperature (Ta min.) ..... -30° C
Total heat dissipation (calculated, +/- 10%) ..... 345 BTU/hr. (not including display devices but with system at full load)

APPROVALS

EU safety ..... EN 60950
EU EMC ..... EN 55032, EN 55103-2, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety ..... ANSI/UL 60950-1
Canadian safety ..... CSA C22.2 No. 60950-1

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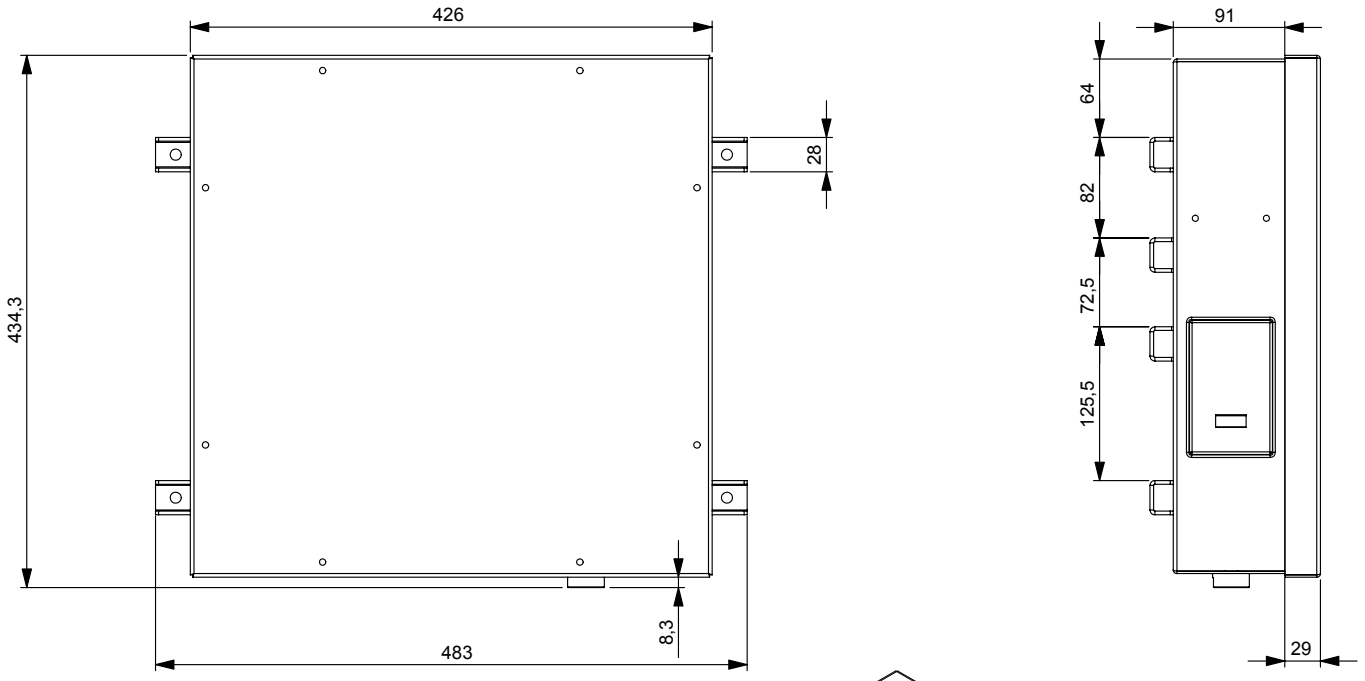
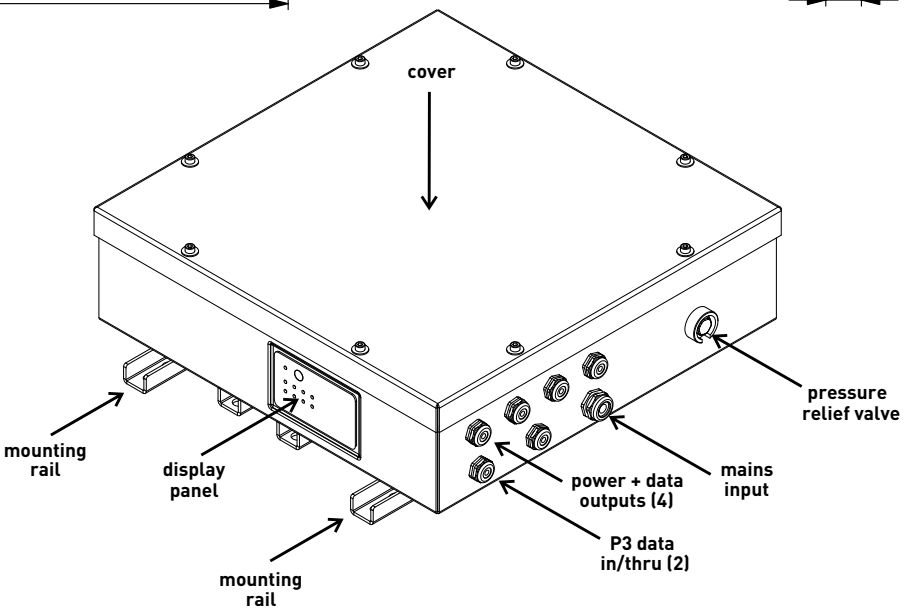
DIMENSIONS

PHYSICAL

Length ..... 426 mm (16.8 in.)
Width ..... 483 mm (19.1 in.)
Height ..... 146 mm (5.8 in.)
Weight ..... 8 kg (17.7 lbs.)





All dimensions are in mm

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