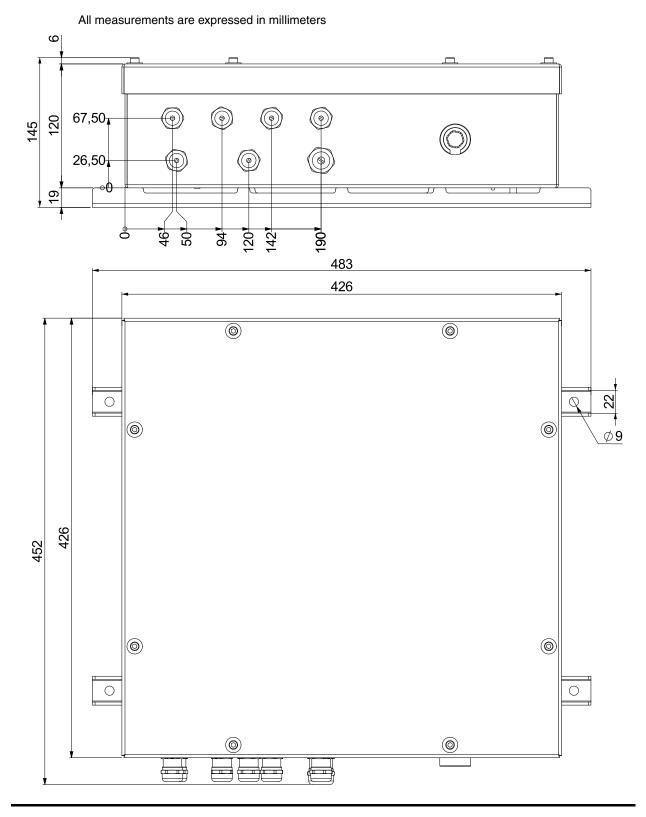
P3 PowerPort 1000 IP™ Installation model

User manual





Dimensions



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Safety Information



WARNING! Read the safety precautions in this section before installing, powering, operating or servicing this product.

The following symbols are used to identify important safety information on the product and in this document:





Warning! Read this user manual before installing and operating the P3 PowerPort 1000 IP.

Warning! The P3 PowerPort 1000 IP is designed to integrate with other devices in a video display installation. Follow the safety precautions given not only in this user manual but also in the manuals of all the devices you connect to it. Observe all warnings given in the manuals and printed on devices. Install and operate devices only as described in the manuals and only in accordance with local laws and regulations. Keep this manual for future reference. Manuals are supplied with devices and also available for download from www.martin.com.

Warning! The Martin[™] P3 PowerPort 1000 IP is not for household use. It presents risks of severe injury or death due to fire and burn hazards, electric shock and falls. It must be installed by qualified technicians only.

Warning! There are no user-serviceable parts inside the P3 PowerPort 1000 IP. Refer any operation not described in this manual to Martin[™] or its authorized service agents.

If you have any questions about how to operate the P3 PowerPort 1000 IP safely, please contact your Martin[™] supplier or call the Martin[™] 24-hour service hotline on +45 8740 0000, or in the USA on 1-888-tech-180.



PROTECTION FROM ELECTRIC SHOCK

- The P3 PowerPort 1000 IP can supply a safe maximum current of 5 A on each of its four power + data outputs. Do not connect devices that draw a combined total current of more than 5 A to a power + data output.
- Check and respect the directions given in the user manuals of all the devices that you intend to connect to the P3 PowerPort 1000 IP, particularly the instructions, warnings and limits that apply to:
 - system layout,
 - connections to other devices,
 - specified cables,
 - maximum cable lengths, and
 - maximum number of devices that can be connected.
- Provide a means of locking out AC mains power that allows power to the installation to be shut down and made impossible to reapply, even accidentally, during work on the installation.
- Shut down power to the installation during service and when it is not in use.
- Ensure that the P3 PowerPort 1000 IP is electrically connected to ground (earth).

- Connect the P3 PowerPort 1000 IP to AC mains power at 120-277 V~ (nominal), 50/60 Hz only.
- Double-pole/neutral fusing is used. If the installation is not completely disconnected from power, parts may remain live even if one of the two mains fuses has blown.
- Use only a source of AC mains power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- Use only a power input cable that has 14 AWG or 2.5 mm² minimum conductor size and an outer cable diameter of 8 13 mm (0.35 0.5 in.). Power cable must be hard usage type (SJT or equivalent) and heat-resistant to 90° C (194° F) minimum. In the EU the cable must be HAR type.
- Use only the cables specified by Martin[™] for the devices concerned to interconnect them. If the specified cables are not long enough for an intended cable run, consult Martin[™] for assistance in finding or creating a safe alternative cable.
- Before applying power to the installation, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Isolate the installation from power immediately if the product, power cable or power plug are in any way damaged or defective, or if they show signs of overheating.

PROTECTION FROM BURNS AND FIRE



- Do not attempt to bypass fuses.
- Provide free airflow around the device.
- Do not operate the P3 PowerPort 1000 IP if the ambient temperature (Ta) exceeds 55° C (131° F).
- Do not modify the P3 PowerPort 1000 IP in any way not described in this manual or install other than genuine Martin[™] parts. Use only accessories approved by Martin[™].



PROTECTION FROM INJURY

- When installing the P3 PowerPort 1000 IP above ground level, ensure that the primary installation hardware and supporting structure can hold at least 10 times the weight of all the devices they support.
- In an overhead installation or where the P3 PowerPort 1000 IP may cause injury if it falls:
 - block access below the work area and work from a stable platform whenever installing, servicing or moving the P3 PowerPort 1000 IP,
 - as soon as work is completed, check that all hardware and components are securely in place and that all installation hardware used is securely fastened.

Introduction

Thank you for selecting the Martin[™] P3 PowerPort 1000 IP, an integrated power and data processor for Martin's range of creative LED video products, including the Exterior PixLines[™], VC-Dots[™], and Exterior Dot-HP[™]. When driven by one of Martin's award-winning P3[™] System Controllers, it powers connected products with high-quality image processing capabilities and extremely easy setup and configuration. This manual covers the installation model of the P3 PowerPort 1000 IP. Its full outdoor rating and optional fiber-interface make it perfect for permanent outdoor installations.

For possible system layouts when using the P3 PowerPort 1000 IP[™] with Martin[™] video products, please see the user documentation for those products. Martin[™] user documentation is supplied with products and available for download from the Martin[™] website at http://www.martin.com, where you can also find the latest specifications, firmware updates and support information for all Martin[™] products.

Martin[™] welcomes input from users. Comments or suggestions regarding this manual can be e-mailed to service@martin.dk or posted to: Technical Documentation, Martin Professional A/S, Olof Palmes Allé 18, DK-8200 Aarhus N, Denmark.

Unpacking

The following items are included with the installation model:

- 1 M20 cable gland for AC mains cable pass-through
- 6 M16 cable glands for P3 video data and Hybrid power + data output cable pass-through
- This manual

Cables, connectors, and adaptors for connection to Martin[™] video products are listed under "Accessories" on page 18.

Overview

The parts identified below are referred to throughout this manual.

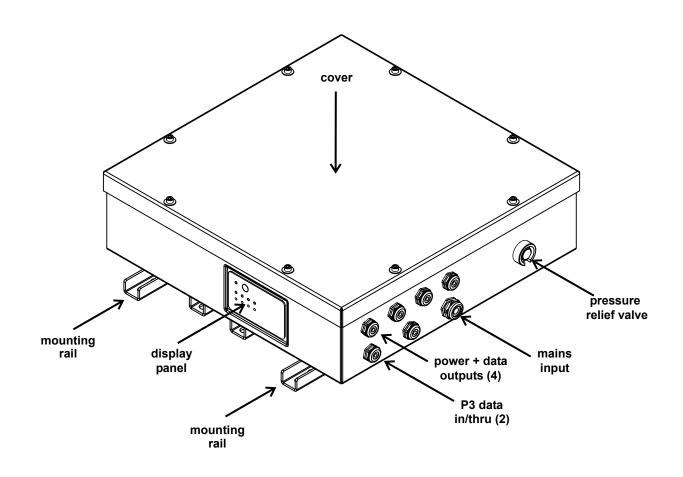


Figure 1: Parts identification

Physical installation



Warning! All fasteners used to mount the P3 PowerPort 1000 IP must be corrosion resistant and strong enough to mount the device safely.

The device is manufactured in aluminum. Avoid mounting in direct contact with other types of metal, as this can cause galvanic corrosion. When fastening to a dissimilar metal surface:

- Use an electrically insulating material (such as rubber or plastic) or coating between the mounting rails and the other metal.
- Use a non-conductive coating such as Delta Seal on fasteners (screws, bolts, washers, etc.) where they come into contact with the mounting bracket.

The device's mounting rails must be securely anchored to a suitable support. The mounting surface must be hard, fixed and flat.

The P3 PowerPort 1000 IP can be installed in any orientation *except* with cable glands facing up or the cover facing down, which might allow water to collect on the seals. The preferred orientation is shown below. If mounting in another orientation, install so that cables enter from below or add a drip loop as shown in Figure 3.

Allow free airflow and at least 100 mm (4 in.) of clearance around the device.

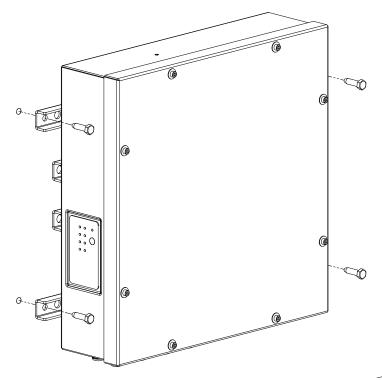


Figure 2: Preferred mounting, cable glands down

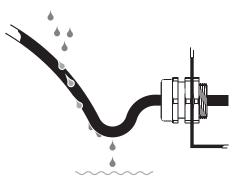


Figure 3: Drip loop

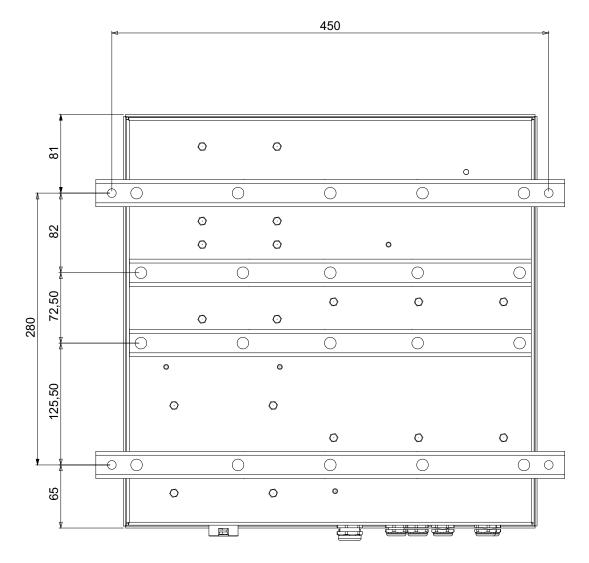


Figure 4: Mounting hole spacing (in mm)

Power and data wiring



Warning! For protection from electric shock, the P3 PowerPort 1000 IP must be electrically connected to ground (earth). The AC mains supply must be fitted with a fuse or overload circuit breaker and ground-fault (earth-fault) protection.

Warning! The power input cable must meet the specifications listed under "Protection from electric shock" on page 4.

Warning! Double-pole/neutral fusing. If the installation is not completely disconnected from power, parts may remain live even if one of the two mains fuses has blown.



Warning! The current draw at each of the P3 PowerPort 1000 IP's four DC power/video data outputs must not exceed 5 A per output. Before connecting devices to the outputs, check carefully the information about system layouts and maximum safe limits in all the user manuals of the devices in the system.

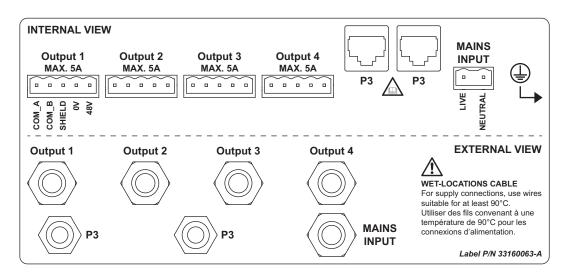


Figure 5: Power and data connections, external and internal views

General wiring procedure

Pass cables through the housing as described in following sections using this procedure:

- 1. See Figure 6. Ensure that there is a rubber seal **B** on the locking nut end of the cable entry **C**, and push this end through the hole provided in the housing so that the seal faces the outer surface of the housing.
- 2. Screw the locking nut A onto the cable entry from inside the housing. Prevent the cable entry from turning, and tighten the locking nut until the seal makes a water-resistant seal against the outer surface of the housing. Do not over-tighten, as this may damage the seal or housing.
- 3. Thread the cable through the compression nut F, washer E, gland D, and cable entry C.
- 4. Allow enough cable slack inside the housing to make connections. Prevent the cable entry from turning and tighten the compression nut sufficiently to grip the cable firmly and make a water-resistant seal. Do not exceed 10 Nm torgue on the data cable compression nuts. Do not exceed 12 Nm torgue on the mains cable compression nut.

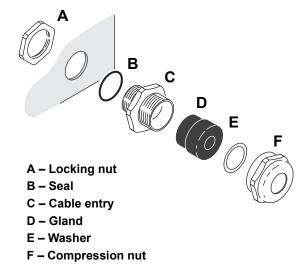


Figure 6: Cable gland assembly

AC mains power input

The P3 PowerPort 1000 IP must be connected directly to AC mains power. It features an auto-sensing switch-mode power supply that automatically adapts to power at 120-277 V~ (nominal), 50/60 Hz.

Note that the device utilizes double-pole/neutral fusing that allows it to be connected to two live phases. However, lethal current may be present even if one of the two mains fuses has blown. Shut down power to the entire installation at the building's main power distribution board and lock out power before carrying out any installation or maintenance work.

The power cable must meet the cable specifications listed under "Protection from electric shock" on page 4.

Connecting to AC mains power

The device is intended to be hard-wired to a building installation circuit though the large cable gland (M20). To connect the P3 PowerPort 1000 IP to AC mains power:

- 1. Verify the AC power circuit is shut down and locked out.
- 2. Prepare the end of the cable by stripping 20 mm (0.8 in.) of the cable's outer jacket. Strip 8 mm (1/3 in.) from the end of each of the wires.
- 3. Remove the top cover.
- 4. Remove the sealing cap from the Mains Input hole.
- 5. Locate the large cable gland (M20) and install the cable through the Mains Input hole as described above in the general wiring procedure. The torque on the compression nut must not exceed 12 Nm.
- Refer to Figure 5. Connect the live conductor (with brown or black insulation) to the live terminal. Connect the neutral conductor (white or blue insulation) or in some cases the second live conductor to the neutral terminal.
- 7. Install a suitable ring connector on the ground conductor (green or yellow/green) and fasten securely to the ground post.
- 8. Insert the connection plug into the mains input socket on the circuit board.
- When all cables have been connected, replace the top cover. Tighten the top cover screws to a torque of 2.5 Nm (22 inch-pounds).

If you install a cord cap (mains plug) on the power cable, install a grounding-type (earthed) plug, following the plug manufacturer's instructions. Table 1 shows some possible mains power pin identification schemes.

Wire Color (US system)	Wire Color (EU system)	Pin	Symbol	Screw (US)
black	brown	live	L	yellow or brass
white	blue	neutral	N	silver
green	yellow/green	ground (earth)	⊕ or ⊥	green

Table 1: Cord cap connections

P3 video data input/throughput

The P3 PowerPort 1000 IP[™] relays video data from a Martin P3[™] system controller to a Martin[™] LED-based video display system. Note that the P3 PowerPort 1000 IP has active video processing circuits and must be powered on before it will relay a P3 video signal from an input connector to throughput and output connectors.

If the installation uses fiber-optic data cable, a user-supplied fiber-to-copper converter can be installed inside the P3 PowerPort 1000 IP housing and connected to the 24V DC output on the main circuit board. Please consult with your Martin[™] dealer for details on suitable converters and installation.

Connecting video data input/throughput

The P3 PowerPort 1000 IP has two internally mounted RJ-45 Ethernet sockets for connection of shielded CAT 5e or better Ethernet cable. Either one of the RJ-45 sockets can be used for P3 video data input and the other socket can be used for video data throughput. The cable jacket must have a diameter of 5.5 to 10 mm and be suitable for the installation environment.

To connect P3 video data to the P3 PowerPort 1000 IP:

1. Verify the AC power circuit is shut down and locked out.

- 2. Remove the sealing cap from one of the holes labeled "P3".
- Install the cable through an M16 cable gland in the open hole as described above in the general wiring procedure. The input cable leads must be bare. The torque on the compression nut must not exceed 10 Nm.
- 4. Install a male RJ-45 connector on the cable end.
- 5. Plug the cable into one of the RJ-45 sockets labeled PL7 or PL8 on the circuit board.
- 6. When all cables have been connected, replace the top cover. Tighten the top cover screws to a torque of 2.5 Nm (22 inch-pounds).

To relay data to another P3-compatible device, similarly connect a shielded Ethernet cable from the P3 PowerPort 1000 IP's unused RJ-45 data socket.

Hybrid power + data output



Warning! Before you connect devices to the P3 PowerPort 1000 IP's power + data outputs, read all the devices' user manuals carefully and respect the system layout guidelines and limits given in the manuals. User manuals are supplied with products and available for download from www.martin.com.

The P3 PowerPort 1000 IP[™] supplies DC power at 48 V and relays P3 video data to Martin[™] video display devices over hybrid DC power + video data cables.

The P3 PowerPort 1000 IP has four power + data outputs. Each output can supply a maximum current of 5 amps (giving a maximum combined total of 20 amps).

Each output is protected by an automatic circuit breaker. If an output is overloaded or short-circulated, it is immediately shut down. Outputs can be re-enabled either by pushing the multi-function button on the side panel or remotely via the P3 System Controller. The circuit breaker attempts to reactivate the output automatically after several minutes. If the problem is still there or happens again, the circuit breaker immediately shuts down the output again.

Connecting hybrid power and video data output

Use only Hybrid power + data cables supplied by Martin[™] to connect Martin[™] video display devices. See "Accessories" on page 18 for available cables. Do not exceed the maximum lengths for cable runs specified in user manuals.

To connect video devices:

- 1. Verify that the AC power circuit is shut down and locked out.
- For each output that you intend to use, prepare the end of the cable by stripping 20 mm (0.8 in.) of the cable's outer jacket. Strip 8 mm (1/3 in.) from the end of each of the wires.
- 3. Remove the top cover.
- 4. Remove the sealing cap from one of the four output holes.
- 5. Install the cable through an M16 cable gland in the open hole as described above in the general wiring procedure. The torque on the compression nut must not exceed 10 Nm.
- 6. Referring to Figure 5,
 - connect the WHITE wire to 48V terminal,
- connect the BLACK wire to the 0V terminal,
- connect the shield braid to the SHIELD terminal,
- connect the RED wire (data +) to the COM_A terminal,
- connect the GREEN wire (data -) to the COM_B terminal.
- 7. Insert the connection plug into an output socket on the circuit board.
- When all cables have been connected, replace the top cover. Tighten the top cover screws to a torque of 2.5 Nm (22 inch-pounds).

Using the product



Warning! Before applying power to the P3 PowerPort 1000 IP:

- Carefully review the safety information starting on page 4.
- Check that the installation is safe and secure.

Do not use the P3 PowerPort 1000 IP if the ambient temperature exceeds 55° C (131° F) or falls below -30° C (-22° F).

Applying power

The installation model of the P3 PowerPort 1000 IP is intended to be wired to a switched AC circuit. It does not have a power on/off switch. To apply power to the device, switch on the AC circuit to which it is connected.

Status LEDs and control button

See Figure 7. The display panel on the side of the P3 PowerPort 1000 IP offers the following features:

- The Data LEDs for each output light when data is transmitted at that output.
- The **Power** LEDs light when 48 VDC power is present at that output.
- The **Status** LED gives feedback about device status. A key is printed on the control panel for quick reference. See Table 2 on page 14 for full details.
- The **control button** lets you call up test patterns and reboot or reinitialize the device. See Table 3 on page 14 for full details.

The LEDs can be disabled from the P3 System Controller.

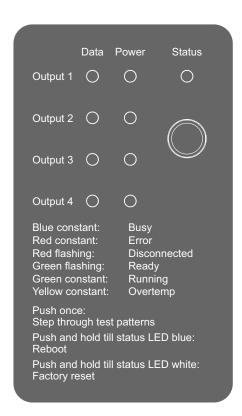


Figure 7: Status LEDs and control button

Status LED messages

Color	Output	Indication	Action required
Blue	Constant	Busy (e.g. booting up or writing to flash memory).	Wait a moment for normal operation to be resumed.
Red	Constant	Error. The P3 PowerPort 1000 IP has encountered a fatal error and can not run.	Perform a factory reboot, followed by a firmware upload.
Red	Flashing	Disconnected. A P3 System Controller could not be found.	Connect a P3 System Controller to the network.
Green	Flashing	Ready. A P3 System Controller is present on the network.	Configure the P3 System Controller to use any or all products connected to the P3 PowerPort 1000 IP.
Green	Constant	Running. A P3 System Controller is sending video data.	None.
Yellow	Constant	Overtemperature.	Allow device to cool down. If problem persists, check that the ambient temperature is not above 55° C (131° F). Check that there is free airflow around the device.

Table 2: Key to status LED information

Control button functions

A key to the functions of the single control button on the P3 PowerPort 1000 IP's display panel is printed on the panel and given in Table 3 below:

Button action	Function
Repeated short press	Display the following test patterns on all the video display products that are correctly connected (one short press scrolls to next pattern): - Calibrated white - Full red - Full green - Full blue - Vertical scrolling gradient - Dimmed uncalibrated white
Press and hold until status LED lights blue	Reboot the P3 PowerPort 1000 IP.
Press and hold until status LED lights white	Reinitialize the P3 PowerPort 1000 IP, returning it to its default factory settings.

Table 3: Key to control button functions

The test patterns that are stored in internal memory let you check that the video display products in an installation are correctly connected without the need for a P3 system controller.

Note that test patterns can also be called up on P3 system controllers and on individual system components that have a test/control button.

If any of the outputs of the P3 PowerPort 1000 IP have been disabled because of an overload or short circuit, pressing the control button will re-enable the output(s) at the same time as it applies a function as shown in Table 3.

Handling DMX and RDM

The P3 PowerPort 1000 IP will relay DMX-controlled video data from a P3 system controller. P3 controller user manuals explain how to connect a DMX controller to the P3 controller and control an installation using DMX. However, the P3 PowerPort 1000 IP does not support DMX or RDM (Remote Device Management) data that is sent directly from a DMX / RDM controller without being processed by a P3 controller. If you want to set up direct DMX / RDM control, see the display device user manuals or contact your Martin[™] supplier for advice.

Service and maintenance



Warning! Read "Safety Information" on page 4 before servicing the P3 PowerPort 1000 IP.

Warning! Disconnect the P3 PowerPort 1000 IP from AC mains power before servicing.



Warning! Refer any service operation not described in this manual to a qualified service technician.

Important! Excessive dirt buildup causes overheating and will damage the product. Damage caused by inadequate cleaning is not covered by the product warranty.

The user will need to clean the P3 PowerPort 1000 IP periodically. All other service operations on the P3 PowerPort 1000 IP must be carried out by Martin Professional[™] or its approved service agents.

Installation, on-site service and maintenance can be provided worldwide by the Martin Professional Global Service organization and its approved agents, giving owners access to Martin's expertise and product knowledge in a partnership that will ensure the highest level of performance throughout the product's lifetime. Please contact your Martin supplier for details.

Cleaning



Warning! Do not use a high-pressure water jet for cleaning. Take care not to damage seals and wiring during cleaning.

Warning! Disconnect from power before cleaning.

Cleaning schedules vary depending on the operating environment. It is therefore impossible to specify precise cleaning intervals for the P3 PowerPort 1000 IP. Environmental factors that may result in a need for frequent cleaning include airborne dust and pollution.

Inspect products frequently to see whether cleaning is necessary. If in doubt, consult your Martin[™] dealer about a suitable maintenance schedule.

To clean the product, use warm water and a soft brush or a low-pressure or medium-pressure water jet. Use car shampoo to help remove dirt and grease. If possible, dry with a soft cloth to avoid streaking. Do not use a stiff brush or scouring pad. Do not use solvents or abrasives.

Installing new software

It may be necessary to upload new software (i.e. device firmware) to the P3 PowerPort 1000 IP if it appears to have a software-related fault or if you want to update to a newer software version.

Software for Martin[™] products is available from the Martin website. The P3 PowerPort 1000 IP software can be installed from the P3 System Controller over the P3 data link. See the P3 System Controller user manual for software installation instructions.

Condensation and pressure relief valve

Under certain conditions, condensation may become visible inside the device. This is normal and harmless. Any condensation will gradually be expelled by the device's Gore-Tex pressure relief valve as the device goes through power off/on cycles.

The pressure relief valve is shown in Figure 1 on page 7. Make sure that the valve is clean and unblocked. The valve must be able to breathe freely so that it can equalize pressure and expel water vapor. If a valve becomes blocked, excessive pressure can damage seals or cause air and water to be sucked along cables and into the device.

Water on the valve membrane will block the membrane's micropores. Do not allow water to collect on or near valve. If you suspect that a valve has become blocked with dirt, contact your Martin supplier.

Troubleshooting

Problem	Probable cause(s)	Remedy
Status LED on side panel lights red.	Error has occurred.	Check that system is correctly connected, set up and running. Hold control button pressed in until it turns blue, then release, to reboot P3 PowerPort 1000 IP. Restart P3 system controller.
	No power to product.	Check that AC circuit is switched on.
Product is completely dead.	Fuse blown.	Disconnect from power and contact Martin [™] Service or an authorized Martin [™] service partner for assistance.
	Internal fault.	Disconnect from power. Lethal current may be present even if one of the two mains fuses has blown. Do not attempt repairs yourself. Contact Martin [™] Service or an authorized Martin [™] service partner for assistance.
	Controller incorrectly setup.	Check controller settings and rectify any problems.
	Poor connections.	Check connections and rectify any faults.
Devices connected to one of the power + data outputs are completely dead.	Circuit breaker has tripped (if this happens, the Power status LED for that output on side panel will not light).	 Reset circuit breaker by sending command from P3 controller or pressing multi-function button on side panel. If circuit breaker trips again: Output may be overloaded. See user manuals of all connected devices. Check that devices are connected devices does not exceed the maximum permitted limit. Output may be short-circuited. Check wiring and rectify any faults. If a circuit breaker trips repeatedly and you cannot find the cause, disconnect from power and contact Martin[™] Service or an authorized Martin[™] service partner for assistance.
	Internal fault.	Disconnect from power. Do not attempt repairs yourself. Contact Martin™ Service or an authorized Martin™ service partner for assistance.
Video display products do not behave as intended.	Bad low-voltage DC power transmission.	Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Bad video data transmission.	Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Incorrect addressing of products.	Check product address and P3 system controller settings.
	Product in installation is defective and is disturbing data transmission.	Substitute known good products one at a time until normal operation is regained. Have faulty product serviced by qualified technician.

Table 4: Troubleshooting

Specifications

Physical (including mounting rails)

Length (including cable glands)	139 mm (17.3 in.)
Width	483 mm (19.0 in.)
Height	.146 mm (5.8 in.)
Weight	7.7 kg (17.0 lbs.)

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	ED
Data output status	ΞDs
Power output status	ΞDs
Device test and reset	tton

Status LEDs can be disabled remotely if required

Video Signal Protocol

Video signal type	Gigabit Ethernet
Video signal compliance	Martin P3™ proprietary protocol
P3 data cable type	Ethernet, shielded CAT 5e or better
P3 data cable length Up t	o 100 m (328 ft.) between any two devices, extendable
	with Ethernet switch or conversion to fiber

System Integration

Martin VC-Dot[™] family via Martin VC-Feeder[™] Martin Exterior PixLine[™] family Martin Exterior Dot-HP[™] family Martin VDO Sceptron[™] family Martin VC-Grid[™] family (indoor product) Martin VC-Strip[™] family (indoor product)

See www.martin.com for latest information.

Construction

Housing	Aluminum
Color	. Alu grey (custom colors available to special order)
Protection rating	
Effective Projected Area (EPA)	0.21 m ²

Installation

Mounting	Surface mount with user-supplied hardware
Orientation	t cable glands facing up or top cover facing down

Connections

AC mains power input	Internal screw terminal (through M20 cable gland)
P3 data in/out*	Two internal RJ45 sockets (through two M16 cable glands)
Combined power & data out	. Four internal screw terminals (through M16 cable glands)

P3 data input can be adapted for fiber optic cable with user-supplied converter

Electrical

AC mains power input
Power supply unitsAuto-ranging electronic switch-mode
Power input cable type HAR type
DC power output
Maximum permitted current draw per output 5 A
Maximum permitted total current draw from all outputs combined
Main fuses
Typical total power consumption
Typical half-cycle RMS inrush currrent at 230 V, 50 Hz

Thermal

Maximum ambient temperature (Ta max.)	31° F)
Minimum ambient temperature (T _a min.)	22° F)
CoolingConv	ection

Approvals

C	E	C C LISTED US
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EU safety	EN 60950
EU EMC	.EN 55032, EN 55103-2, EN 55024,
	EN 61000-3-2, EN 61000-3-3
US safety	ANSI/UL 60950-1
US EMC	FCC Part 15 Class A
Canadian safety	CSA C22.2 No. 60950-1
Canadian EMC	ICES-003 Class A
Australia/NZ	RCM (pending)

Included Items

Six M16 x 1.5 IP68 Cable Glands, Metal, cable Ø 5.5 mm - 10 mm (0.22 - 0.39 in.) P/N	V 13102031
One M20 x 1.5 IP68 Cable Gland, Metal, cable Ø 8 mm - 13 mm (0.32 - 0.51 in.) P/N	V 13102090

Accessories

Hybrid* cables & connectors

	•	
	Power+Data Cable, Install, CMX, BBD-BBD 1 m (3.2 ft.)	P/N 91616055
	Power+Data Cable, Install, CMX, BBD-BBD 2.5 m (8.2 ft.)	P/N 91616056
	Power+Data Cable, Install, CMX, BBD-BBD 5 m (16.4 ft.)	P/N 91616057
	Power+Data Cable, Install, CMX, BBD-BBD 10 m (32.8 ft.)	P/N 91616058
	Power+Data Cable, Install, CMX, BBD-BBD 25 m (82 ft.)	P/N 91616059
	Power+Data Cable, Install, CMX, 100 m (328 ft.)	P/N 91616060
	Power+Data Connector, BBD Male	P/N 91611750
	Power+Data Connector, BBD Female	P/N 91611751
	Caps for Female BBD Connector, Set of 10	P/N 91616052
١	VC-Dot cable adapters	
	Power+Data Adapter, M16-BBD 0.25 m (9.8 in.).	P/N 91616053
	Power+Data Adapter, BBD-M16 0.25 m (9.8 in.).	P/N 91616054

*Hybrid cables carry both DC power and data over separate conductors.

Related Items

Martin P3-050™ System Controller P/	N 90721090
Martin P3-100 [™] System Controller P/	N 90721010
Martin P3-150 [™] System Controller P/	N 90721015
Martin P3-200™ System Controller P/	N 90721020
Martin P3-300 [™] System Controller P/	N 90721060
Martin P3-PC [™] System Controller P/	N 90721030

See www.martin.com for latest information.

Ordering Information

Martin P3 PowerPort™	1000 IP, Installation Model	P/N 90721080
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Specifications subject to change without notice. For the latest product specifications, see www.martin.com

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Canadian Interference-Causing Equipment Regulations - Règlement sur le Matériel Brouilleur du Canada

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le Matériel Brouilleur du Canada.

Disposing of this product

Martin[™] products are supplied in compliance with Directive 2012/19/EC of the European Parliament and of the Council of the European Union on WEEE (Waste Electrical and Electronic Equipment), where applicable. Help preserve the environment! Ensure that this product is recycled at the end of its life. Your supplier can give details of local arrangements for the disposal of Martin products.



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