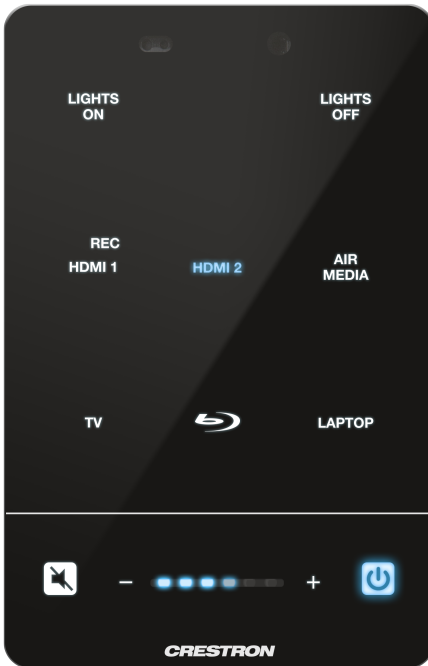


MPC4-102-B

4-Series® Media Presentation Controller 102



- *Crestron® 4-Series Control System® automated processor and control panel*
- *Mounts flush on a wall or lectern and fits in a 1-gang U.S. electrical box*
- *Nine buttons customizable with replaceable icon chips, plus power, volume, and mute buttons and a volume gauge*
- *Fully-programmable functionality*
- *Built-in .AV Framework™ software*
- *High-speed Ethernet LAN port*
- *Onboard Cresnet® network, RS-232, IR, relay, and Versiport control ports*
- *iPhone®, iPad®, and Android® device control app support*
- *XPanel computer and web based control*
- *Crestron Fusion® software room monitoring and scheduling support*
- *XiO Cloud® service provisioning and management support*
- *SNMP remote IT management support*
- *Native BACnet™ network/IP support*
- *Installer setup via software, web browser, or cloud*
- *Drag-and-drop, C#, and symbol based programming environments with full Unicode (multilanguage) support*
- *Enterprise-grade security and authentication*
- *IPv6 ready*
- *PoE network powered*

The 4-Series® Media Presentation Controller 102 (MPC4-102-B) is a wall-mounted, PoE-powered 4-Series® Control System automated processor and control panel in one. Its customizable backlit capacitive buttons provide an ideal user interface for controlling AV and other functions. It offers fully-programmable functionality, supports web and cloud-based configuration and management, and integrates with Crestron Fusion® software as part of a complete managed enterprise solution.

Crestron® MPC4 series controllers are perfect for classrooms, meeting rooms, lecture halls, and training facilities. Use the MPC4-102-B to control a video display or AV system, adjust lighting and window shades, or any other custom application.

Customizable Backlit Capacitive Buttons

The MPC4-102-B features nine backlit capacitive buttons, which can each be labeled using the icon chips provided, or custom labeled using laser-engravable chips ([MPB3/MPC3-BTN3-B ENGRAVED](#), sold separately). Each button is backlit blue when active, and white when inactive to provide clear indication of what media source or lighting scene is currently selected. Four additional buttons are included at the bottom along with a volume gauge for control of volume, mute, and power.

All buttons on the MPC4-102-B are custom programmable to control any device or function. Built-in proximity sensing wakes the buttons as you approach, and Autobrightness control maintains optimal visibility of the buttons under varying lighting conditions.

No Rack Required

The MPC4-102-B provides the essential interface for connecting to the building network and controlling Crestron AV switchers, audio processors, and other IP controllable equipment. Cresnet® network connectivity provides support for Crestron lighting dimmers, motorized shades, sensors, thermostats, keypads, and more. Onboard RS-232, IR, relay, and Versiport I/O control ports enable direct integration with all types of third-party equipment.

Expanded connectivity is available using a [DIN-CENCN-2](#) or [DIN-CENCN-2-POE](#) Ethernet to Cresnet® bridge, [CEN-GWEXER](#) or [CEN-GWEXER](#) infiNET EX® wireless gateway, or [CEN-IO-COM-102](#), [CEN-IO-DIGIN-104](#), [CEN-IO-IR-104](#), or [CEN-IO-RY-104](#) wired Ethernet module.

MPC4-102-B

4-Series® Media Presentation Controller 102

4-Series® Control Engine

4-Series control systems come equipped with an upgraded multicore CPU, delivering a sizable speed and performance increase compared to all Crestron 3-Series® control processors. The improved performance allows 4-Series control systems to handle the increasing demands of an advanced automated system. Crestron 4-Series delivers a dynamic and secure control system platform capable of managing a room full of disparate technologies. Reliable networking and IP control afford seamless integration with other systems and devices, with add-on control capability using Crestron touch screens, wireless remotes, and mobile device apps, as well as remote management through Crestron Fusion® software and the XiO Cloud® service.

No Programming Required

Built-in .AV Framework™ software technology delivers a fully functional AV presentation system with simplified web-based configuration and a choice of control options and add-ons. For complete details on the capabilities supported by .AV Framework, visit www.crestron.com/avframework.

Crestron Fusion Room Monitoring and Scheduling

Crestron Fusion provides an integrated platform for creating truly smart buildings that save energy and enhance worker productivity. As part of a complete managed network in a corporate enterprise, college campus, convention center, or any other facility, the MPC4-102-B works with Crestron Fusion to enable remote scheduling, monitoring, and control of rooms and technology from a central help desk or mobile app. It also enables organizations to reduce energy consumption by tracking real-time usage and automating control of AV, lighting, shades, and HVAC. For more information about Crestron Fusion, visit www.crestron.com/fusion.

XiO Cloud Provisioning and Management

4-Series control systems leverage the power and flexibility of XiO Cloud services, enabling users to remotely provision, monitor, and manage Crestron devices across an enterprise network. XiO Cloud can be used to configure and load programs to the control system before it is received, making the control system fully functional as soon as it is connected to the network. XiO Cloud is built on the Microsoft® Azure® software platform and utilizes Microsoft's industry leading Azure IoT Hub technology. XiO Cloud enables installers and IT managers to deploy and manage thousands of devices simultaneously. Unlike other virtual machine based cloud solutions, Azure services provide unlimited scalability to suit the ever growing needs of an enterprise. For more information, visit www.crestron.com/xiocloud.

Enterprise-Grade Security

The MPC4-102-B is an enterprise-class control processor that can be deployed across hundreds of spaces and set up easily using a web browser, toolbox software, Crestron Fusion, or XiO Cloud. It employs standard network security protocols, including 802.1X network access control, Active Directory® software authentication, SSH, TLS, and HTTPS, to ensure reliability and compliance with your organization's IT policies.

SNMP V3 Support

Built-in SNMP V3 support enables integration with third-party IT management software, allowing network administrators to manage and control Crestron systems on the network in an IT-friendly format.

Power over Ethernet

Using PoE technology, the MPC4-102-B gets its operating power directly through the LAN wiring. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. A PoE Injector ([PWE-4803RU](#)) simply connects in line with the LAN cable at any convenient location. Crestron PoE switches ([CEN-SWPOE-10](#) or [CEN-SWPOE-26](#)) may also be used to provide a total networking solution with built-in PoE. All PoE injectors and switches are sold separately.

Flush Mount Installation

The MPC4-102-B is designed to be flush-mounted in a wall using a 1-gang U.S. electrical box (not included), and made to easily replace an existing MPC3 Series Media Presentation Controller. It can also be installed in a lectern or podium with no back box. Using the optional retrofit mounting bracket ([MPC3-101/102/201-RMB](#), sold separately), the MPC4-102-B can be installed in a 2-gang U.S. electrical box. Once installed, the button labels can be changed at any time by simply removing the front cover. A security screw is included to prevent unauthorized removal.

Tabletop Option

Using the optional Tabletop Kit ([MPC3/MPB3-TTK-SQR-B](#) sold separately), the MPC4-102-B becomes a stylish, freestanding controller that fits perfectly on a table, desk, or countertop.

Third-Party Mounting Solution

The MPC4-102-B is also compatible with [Wall-Smart® retrofit mount products](#) via a partnership with Crestron.

MPC4-102-B

4-Series® Media Presentation Controller 102

Specifications

Control Engine

Crestron 4-Series® control processor; real-time, preemptive multithreaded/multitasking kernel; Transaction-Safe Extended FAT file system; battery-backed nonvolatile real-time clock; supports up to 10 simultaneously-running programs, native .AV Framework™ software program

Communications

Ethernet 1000 Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), FIPS 140-2 compliant encryption, IEEE 802.1X, SNMP, BACnet/IP [2], IPv4 or IPv6, Active Directory authentication, SMTP email client, HTTPS web server, HTTPS web browser setup and XiO Cloud® client, IEEE 802.3af and 802.3at Type 1 PoE compliant

Connectors

LAN PoE (1) 8-pin RJ-45 connector, female; 1000BASE-TX Ethernet port; PoE and PoE+ (Power over Ethernet) PD (Powered Device) port

COM (1) 3-pin 3.5 mm detachable terminal block; Bidirectional RS-232 port; Up to 115.2k baud, hardware and software handshaking support

I/O / IR (1) 5-pin 3.5 mm detachable terminal block; Comprises (2) Versiport digital input/output or analog input ports (referenced to GND) and (1) IR/Serial port

Digital Input: Rated for 0–24VDC, input impedance 20k Ω , logic threshold >3.125V low/0 and <1.875V high/1; Digital Output: 250 mA sink from maximum 24VDC, catch diodes for use with real world loads; Analog Input: Rated for 0–10VDC, protected to 24VDC maximum, input impedance 21k Ω with pull-up resistor disabled; Programmable 5V, 2k Ω pull-up resistor per pin;

IR/Serial output port; IR output up to 1.2MHz; 1-way Serial TTL/RS-232 (0–5V) up to 115.2k baud; ([IRP2](#) emitter sold separately)

NET (1) 3-pin detachable terminal block; Cresnet master port

RELAY

(1) 3-pin detachable terminal block; Comprises (2) normally open, isolated relays; Rated 1 Amp, 30V AC/DC; MOV arc suppression across contacts

Ground

(1) 6-32 screw; Chassis ground lug (flying lead with ring terminal included)

Controls and Indicators

Assignable Buttons (9) Projected capacitive push buttons, each may be labeled using one of 25 prelabeled icon chips or hidden using one of five blackout chips (included), custom laser-etched icon chips are available using optional [MPB3/MPC3-BTN3-B ENGRAVED](#) engravable icon chips (sold separately)

Mute (1) Projected capacitive push button with mute icon

-/+ (2) Projected capacitive push buttons labeled with - (minus) and + (plus) icons for volume control

Volume Gauge (1) Blue LED multisegment bargraph for volume level indication

Power (1) Projected capacitive push button labeled with power icon

HW-R (1) Push button (behind front panel) for hardware reset (reboots the processor)

SW-R (1) Push button (behind front panel) for software reset (restarts the software program)

Illumination Each capacitive button is individually backlit—white when inactive and blue when active; autobrightness control adjusts all backlighting in three levels according to the ambient light level; backlighting may be dimmed or extinguished when unit enters idle state

NOTE: All capacitive buttons are custom programmable.

Memory

SDRAM 2 GB

Light Sensor

Photosensor detects the ambient light level to enable autobrightness control

Proximity Sensor

Type Eye-safe 940 nm laser ranging sensor

Range Adjustable from 8 to 35 in. (20 to 90 cm)

Detects people within range and wakes the unit from standby or idle state

MPC4-102-B

4-Series® Media Presentation Controller 102

Audio

Key Click	Sounds when any button is pressed, adjustable to one of three volume settings or off
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Power

Power over Ethernet	IEEE 802.3at Type 1 (802.3af compatible) Class 0 (12.95 W) PoE Powered Device
Power Consumption	4.5 W typical, 2.8 W idle

Environmental

Temperature	41 to 104°F (5 to 40°C)
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	15.4 BTU/hr typical, 9.6 BTU/hr idle

Construction

Housing	Plastic with metal mounting plate, removable front panel with optional security screw
Flush Wall Mount	Mounts in a 1-gang U.S. electrical box (not included), mounts in a 2-gang U.S. electrical box using MPC3-101/102/201-RMB retrofit mounting bracket (sold separately)
Lectern Mount	Mounts in a 2.85 in. (72 mm) H x 2.04 in. (52 mm) W rectangular cutout using bracket provided

Dimensions

Height	4.62 in. (117 mm)
Width	3.02 in. (77 mm)
Depth	2.02 in. (51 mm)

Weight

9.59 oz (272 g)

Compliance

Regulatory Model: M201903001

UL® Standards Listed, CE, IC, FCC Part 15 Class B digital device; Class 1M laser product, complies with safety regulations of IEC- 60825-1, FDA 21 CFR 1040.11, and FDA 21 CFR 1040.10

To search for product certificates, refer to support.crestron.com/app/certificates.

Models

MPC4-102-B

4-Series® Media Presentation Controller 102

Available Accessories

For a list of available accessories, visit the [MPC4-102](#) product page.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English. All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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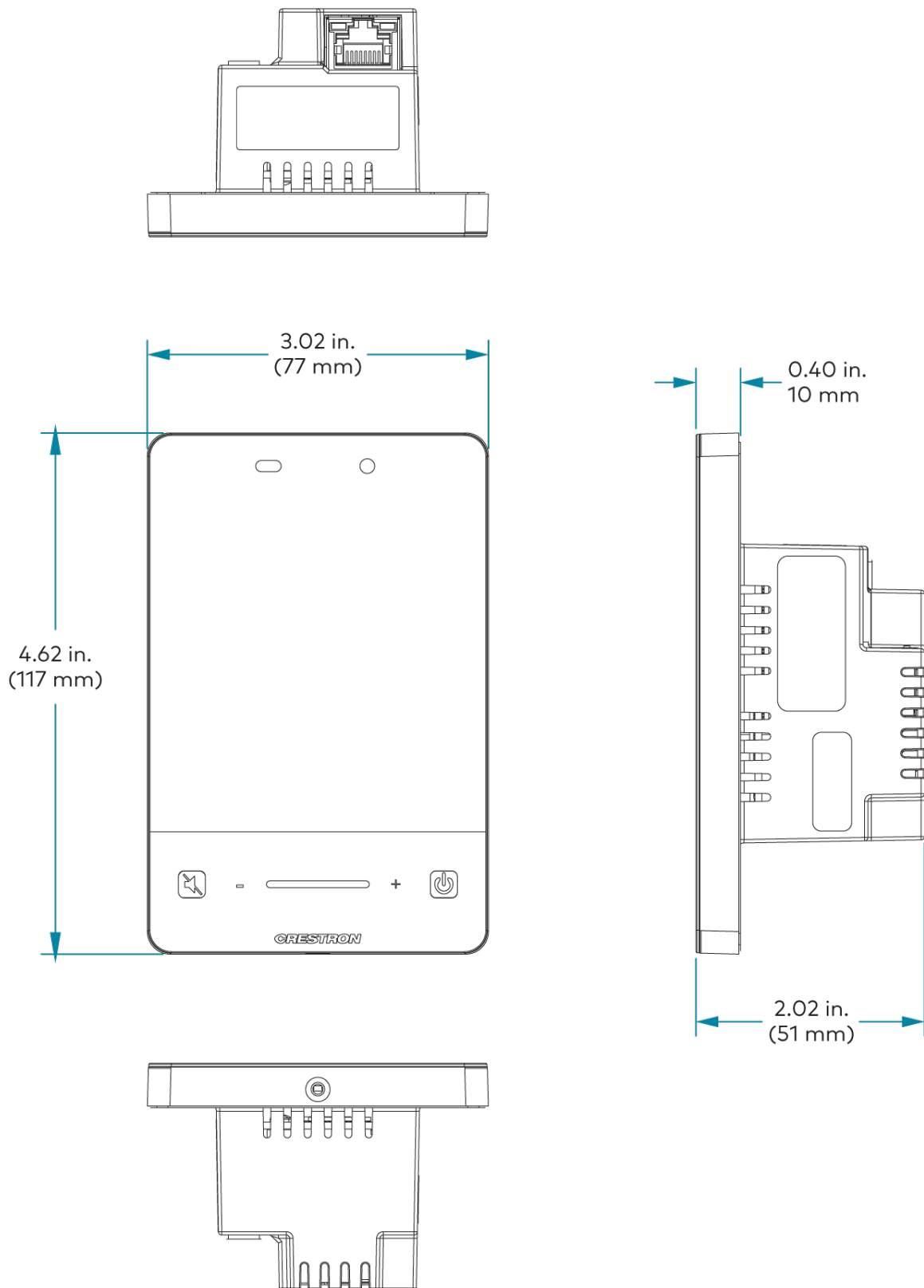
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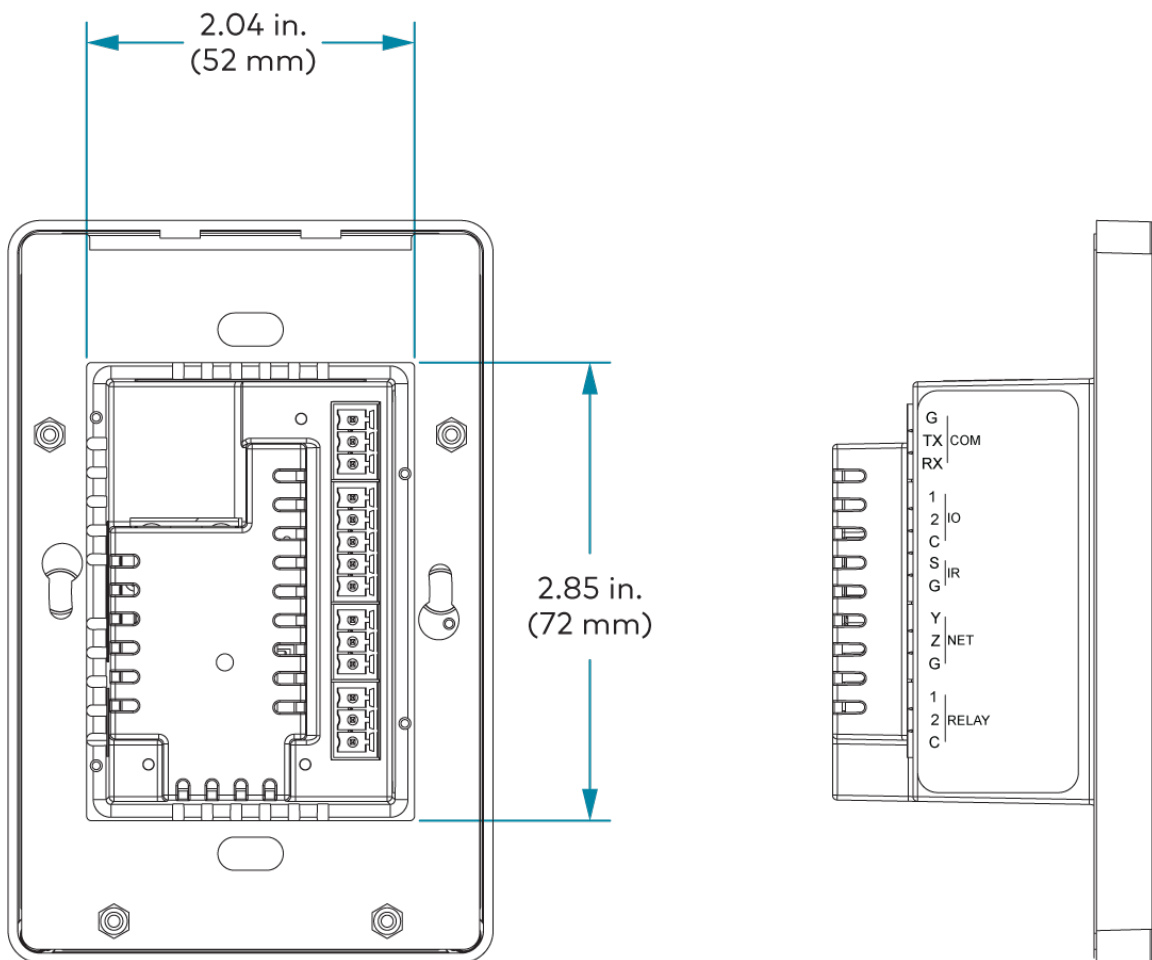
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Provided Icon Sheets (1 of 2)



MPC4-102-B

4-Series® Media Presentation Controller 102

Provided Icon Sheets (2 of 2)

