

4.3" Touch Screen w/Room Scheduling

- > Modern, contoured appearance
- > Thin profile and small footprint
- > Affordable and easy to install
- > 4.3" widescreen active-matrix color touch screen
- > 800 x 480 WVGA display resolution
- > Smart Graphics™ support
- > High-performance H.264 streaming video
- > Crestron IP intercom
- > Customizable audio feedback
- > Built-in microphone and speaker
- > Built-in proximity sensor
- > 10 optional "hard key" pushbuttons
- > Dual-color button backlighting and feedback
- > Custom engravable button text
- > Fusion RV® room scheduling mode
- > Room occupancy sensor option⁽¹⁾
- > Single-wire Ethernet connectivity
- > PoE network powered
- > Versatile wall, surface, and tabletop mounting options
- > Available with black or white smooth finish

With its clean, contoured appearance, the TPMC-4SM Touch Screen from Crestron® makes an elegant statement in any environment. Perfectly at home in the most modern office building, hotel, or residence, its high-tech good looks underline its power for simplifying everyday tasks and functions throughout any facility, all in a very affordable device that's versatile and easy to install.

An incredibly thin profile and small footprint allow the TPMC-4SM to be installed in places other touch screens just can't go, providing the choice of mounting to a standard electrical box or to virtually any flat surface — even glass, granite, or marble. A table top enclosure is also available, affording a very stylish, space-saving solution for placement on a desktop or bedside table. Complete connectivity is provided through a single high-speed Ethernet connection, containing all control, video, intercom, and power signals within a single wire.

The TPMC-4SM provides a customizable touch screen controller featuring Smart Graphics™, H.264 streaming video, audio feedback, and 2-way IP intercom, cohesively merged into one seamless user interface. Additional features include dual-color backlit buttons, a built-in proximity sensor, PoE network power, occupancy sensor inputs, and out-of-the-box room scheduling capability for use with Crestron Fusion RV® Remote Asset Management Software.



Advanced Touch Screen Control

A Crestron touch screen offers an ideal user-interface for controlling all the technology in your home, boardroom, classroom, courtroom, or command center. Touch screens do away with piles of remote controls, cluttered wall switches, and cryptic computer screens, simplifying and enhancing the way you use technology. Crestron touch screens are fully-customizable for controlling audio, video, lighting, shades, HVAC, security, and other systems — with easy-to-use controls and icons, true feedback and real-time status display, live streaming video, and advanced navigation of digital media servers, tuners, and other devices.

Smart Graphics™

Crestron touch screens use Smart Graphics to deliver the ultimate user experience *and* the ultimate value by enabling the creation of dynamically rich user interfaces with incredible efficiency and unparalleled functionality. Using Smart Graphics, programmers can swiftly integrate fluid gesture-driven controls, animated feedback, metadata, and video for a deeply engaging and ultra-intuitive touch screen experience.

Crestron Smart Graphics include the following enhancements:

- Cool-looking graphical buttons, sliders, knobs, and gauges are intuitive and fun to use.
- Kinetic effects enhance the feeling of realism with lists and toolbars that scroll with momentum at the flick of a fingertip.
- Drag-and-drop objects snap into place offering an easy way to switch sources.
- Dashboard widgets personalize the touch screen with clocks, weather, news, and other information.
- Customizable themes allow a completely different look and feel for every user, event, or season.
- Fully-developed SmartObjects™ enable sophisticated control over complex devices with minimal programming.

TPMC-4SM 4.3" Touch Screen w/Room Scheduling



TPMC-4SM-B-S with "No-Button" Covers



TPMC-4SM-W-S with "No-Button" Covers and TTK-4SM TableTop Kit



TPMC-4SM-B-S with WMKU-4SM Universal Wall Mount Kit



TPMC-4SM-W-S with "No-Button" Covers and MSMK-4SM Multi-Surface Mount Kit (Shown w/optional angle bracket)

Dual-Color Backlit Buttons

The TPMC-4SM comes standard with 10 programmable "hard key" push-buttons for quick access to commonly used functions. Each button features a translucent button cap with a choice of red or green LED backlighting. The backlighting is fully dimmable, either globally or separately for the left side and right side. Alternately, each button LED can be programmed to provide discrete feedback, affording clear indication of the status of each individual button.

The TPMC-4SM comes standard with its buttons pre-labeled for room scheduling functions. Customized labeling can be attained using Crestron Engraver software. Or, for a clean appearance, either column of buttons may be removed and covered using the no-button covers provided.

Room Scheduling Mode

The TPMC-4SM works directly with Crestron Fusion RV Remote Asset Management Software to provide a powerful room scheduling solution. Installed outside the entrance to every meeting room, the TPMC-4SM provides an immediate view of each room's availability, with the ability to look up the calendar for any room on the network, and even book the room right on-the-spot. The dual-color buttons give a clear indication of a room's status at-a-glance, lighting green when the room is available and red when it is in use. The touch screen's contoured shape assures that the buttons remains clearly visible at a distance to either side — even when mounted in a narrow hallway.

Occupancy Sensing

Crestron [GLS-series](#) room occupancy sensors can be connected directly to the TPMC-4SM to allow automation of the room's lighting, climate control, and other devices. In Room Scheduling Mode, the sensors allow Fusion RV to detect when no one has shown up for a scheduled meeting, so even if the meeting is not cancelled or rescheduled by its host, the calendar can be updated automatically to make the room available to other users.

Proximity Sensor

The TPMC-4SM senses as you approach it, waking its display automatically without having to touch the screen so it's always ready for use.

Streaming Video

High-performance streaming video capability makes it possible to view security cameras and other video sources over the network right on the touch screen. Native support for H.264 and MJPEG formats allows the TPMC-4SM to display live video images from IP cameras and servers such as the Crestron [CEN-NVS200](#) Network Video Streamer⁽¹⁾.

IP Intercom

Built-in IP intercom capability facilitates direct touch screen-to-touch screen intercom and monitoring right over the LAN without requiring any additional AV wiring. The TPMC-4SM features an integrated microphone and speaker for clear speech communication.

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Audio Feedback

Customized audio files can be loaded on the TPMC-4SM to add another dimension to its touch screen graphics using personalized sounds, button feedback, and voice prompts.

Single-Wire Connectivity

A simple Ethernet LAN connection is all that is required to wire the TPMC-4SM, containing all control, video, intercom, and power signals within a single wire.

Power over Ethernet

Using PoE technology, the TPMC-4SM gets its operating power right 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^{\[1\]}](#)) simply connects inline with the LAN cable at any convenient location. Crestron PoE switches ([CEN-SW-POE-5](#), [CEN-SWPOE-16](#), or [CEN-SWPOE-24^{\[1\]}](#)) may also be used to provide a total networking solution with built-in PoE.

Simple, Versatile Mounting

The TPMC-4SM installs easily on virtually any mounting surface. As standard, it mounts directly to a single-gang electrical box (horizontally oriented) or European electrical box, requiring just 1/2-inch mounting depth while protruding less than 3/4-inch from the wall surface. It can also be adapted for mounting to a vertically-oriented 1-gang or 2-gang electrical box, or a 2-gang UK electrical box, using the optional [WMKU-4SM Universal Wall Mount Kit^{\[1\]}](#), which can also be used without an electrical box for a low-profile surface-mount solution^[2].

For impenetrable surfaces, such as decorative glass, granite, marble, plaster, smooth stone and masonry, Crestron offers the [MSMK-4SM Multi-Surface Mount Kit^{\[1\]}](#), which provides a very versatile mounting solution complete with a low-profile rear shell enclosure, adhesive mounting plate, optional angle bracket, and wire raceway. And finally, the [TTK-4SM Table Top Kit^{\[1\]}](#) converts the TPMC-4SM into a stylish, compact tabletop touch screen, perfect for free-standing use or permanently-mounted on a tabletop or counter surface.

SPECIFICATIONS

Touch Screen Display

Display Type: TFT Active matrix color LCD
Size: 4.3 inch (109 mm) diagonal
Aspect Ratio: 16:9 WVGA
Resolution: 800 x 480 pixels
Brightness: 270 nits (cd/m²)
Contrast: 300:1
Color Depth: 16-bit, 64k colors
Illumination: Backlit LED
Viewing Angle: ±80° horizontal, ±80° vertical
Touch Screen: Resistive membrane

Buttons

Hard Keys: (10) Optional programmable pushbuttons, translucent backlit
Feedback/Backlight: (1) red and (1) green LED per hard key, programmable for feedback and backlighting
Reset: (1) Recessed pushbutton behind pinhole for hardware reset

Proximity Sensor

Type: Active infrared beam and receiver
Range: 3-4 feet
Wakes the touch screen and backlight

Memory

SDRAM: 256 MB
Flash: 2 GB
Maximum Project Size: 60 MB

Graphics Engine

Supports Smart Graphics™ or “traditional” GUI projects

Communications

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP, IEEE 802.3af and 802.3at compliant

Video

Streaming Formats: H.264 (MPEG-4 part 10 AVC), MJPEG

Audio

Features: Built-in microphone and speaker, Crestron IP Intercom
Amplification: Mono, 0.5 Watts
Audio Feedback Formats: MP3 using Smart Graphics, WAV using “traditional” graphics

Connectors

LAN PoE: (1) 8-wire RJ45 with 2 LED indicators;
10Base-T/100Base-TX Ethernet port;
Power over Ethernet compliant;
Green and yellow LEDs indicate Ethernet port status

Occupancy Sensor Input: (4) captive screw terminals comprising (2) voltage sensing inputs (referenced to GND) with 24 Volt DC power output;
Input Voltage Range: 0-30 Volts DC;
Sensing Threshold: ≥4.5 Volts DC active, ≤1 Volt DC inactive;
Maximum DC Load: 4 Watts @ 24 Volts DC, provides operating power for up to (4) Crestron GLS Series occupancy sensors

Power Requirements

Power over Ethernet: IEEE 802.3af (802.3at Type 1) Class 3 PoE Powered Device

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Environmental

Temperature: 32° to 104°F (0° to 40°C)

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation: 14 BTU/Hr

Enclosure

Construction: Plastic, black or white, smooth finish

Front Bezel: Plastic, hard buttons installed with pre-labeled button covers, custom engraving sold separately, "no-button" covers also included

Mounting: Requires a horizontally-oriented 1-Gang electrical box or plaster ring, or a 1-Gang European (DIN 49073) electrical box; choice of standard or security screws provided; optional universal wall, multi-surface, and table top mounting kits sold separately

Dimensions

Height: 3.47 in (89 mm)

Width: 6.20 in (158 mm)

Depth: 1.21 in (31 mm)

Weight

8.8 oz (249 g)

Notes:

1. Item(s) sold separately.
2. WMKU-4SM mounting option requires a minimum surface cut-out or wall box opening of 1.7" high x 2.0" wide.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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MODELS & ACCESSORIES

Available Models

TPMC-4SM-B-S: 4.3" Touch Screen w/Room Scheduling, Black Smooth

TPMC-4SM-W-S: 4.3" Touch Screen w/Room Scheduling, White Smooth

Available Accessories

4SM-BTNO: Engravable Button Covers w/Custom Engraving, Set of 2

WMKU-4SM: Universal Wall Mount Kit

MSMK-4SM: Multi-Surface Mount Kit

TTK-4SM: TableTop Kit

SMK-4SM/730: Swivel Mount Kit for TTK-4SM

PWE-4803RU: PoE Injector

CEN-SW-POE-5: 5-Port PoE Switch

CEN-SWPOE-16: 16-Port Managed PoE Switch

CEN-SWPOE-24: 24-Port Managed PoE Switch

GLS-ODT Series: Crestron Green Light™ Dual-Technology Occupancy Sensors

GLS-OIR Series: Crestron Green Light™ Passive Infrared Occupancy Sensors

CEN-NVS200: Network Video Streamer

SW-VMK-WIN: TouchPoint® Virtual Mouse & Keyboard Software for Windows®

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