

TPMC-4SM-FD

4.3" Room Scheduling Touch Screen

- > Room scheduling touch screen
- > For use with Crestron Fusion RV® software
- > Intuitive on-screen scheduling interface
- > 4.3" widescreen active-matrix color display
- > Built-in proximity sensor
- > Room occupancy sensor option^[2]
- > Smart Graphics™ support
- > High-performance H.264 streaming video^[2]
- > Rava® SIP intercom and phone technology^[2]
- > Customizable audio feedback^[2]
- > Built-in microphone and speaker^[2]
- > 10 optional "hard key" pushbuttons
- > Dual-color button backlighting
- > Custom engravable button text^[3]
- > Single-wire Ethernet connectivity
- > PoE network powered
- > Surface mountable over a 2" square hole or wall box^[1]
- > Modern, contoured appearance
- > Available with black or white smooth finish



Crestron® Room Scheduling Touch Screens provide an invaluable productivity tool for organizations with multiple conference rooms and meeting spaces. Mounted on the wall outside each room, they allow anyone to see at-a-glance if a room is available or in use, view details about the current meeting, and look up the room's entire schedule. Upcoming meetings and open time slots are clearly displayed on the color touch screen, and users can even reserve a room right on the spot.

Room Scheduling Touch Screens end the wasteful practice of searching the corridors for an available room. They eliminate confusion over which room is booked — by whom and for how long — and allow attendees to verify they're in the right place before entering a room. They help organizations to maximize productivity and get the most usable time out of every room.

Crestron Room Scheduling Touch Screens are designed to be installed as part of a complete enterprise room scheduling solution using Fusion RV® Remote Asset Management Software.

Form and Function

The TPMC-4SM-FD Room Scheduling Touch Screen features a 4.3 inch (109 mm) widescreen display, perfectly sized for viewing and accessing essential meeting and scheduling information through an intuitive on-screen interface. Shortcut buttons on either side of the touch screen provide quick access to the most common scheduling functions.

With its clean, modern appearance, the TPMC-4SM-FD makes an elegant statement in any environment including office buildings, conference centers, hotels, and universities. It mounts over a standard electrical box or small hole on a wall or similar surface.^[1] Its contoured shape affords clear

visibility down long corridors, with room status indicators at either side that shine green when the room is available and red when it is in use.

Enhanced Room Scheduling

The TPMC-4SM-FD is optimized for use with Crestron Fusion RV software, enabling tight integration with popular scheduling applications like Microsoft® Exchange, Office 365™, IBM® Notes®, CollegeNET® R25®, and Google Calendar™. Through its color touch screen, the TPMC-4SM-FD provides essential room scheduling capabilities that can be customized to suit the needs of any organization.



- **Schedule View** – Displays a clear, at-a-glance view of the current reservation, with the ability to also see upcoming reservations and available time slots at the press of a button. New reservations can be scheduled on the spot.
- **Find** – Allows you to search all the rooms on the network, and reserve any room nearby, without leaving the touch screen you're at.
- **End Now** – Allows you to end a reservation early, making the room available to others immediately.
- **Extend** – Allows you to extend the current reservation if a meeting is running over and the room is still available.
- **Details** – Provides additional information about a reservation.
- **Broadcast Messaging** – Allows text bulletins, announcements, and other messages to be displayed on the touch screen. Emergency broadcasts can be accompanied by an alert sound, while non-emergency messages are displayed on the screen without disrupting its normal use.

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Dual-Color Backlit Buttons

The TPMC-4SM-FD comes standard with 10 “hard key” pushbuttons. Positioned on either side of the touch screen display, these buttons offer an easy method for navigating the on-screen user interface, providing quick access to the most common scheduling functions. The buttons are also backlit, illuminating green or red to indicate when the room is available or in use.

The button backlighting is fully dimmable to allow for just the right brightness. For custom applications, each button can be individually programmed to provide discrete feedback^[2]. Customized labeling of the buttons can also be attained using Crestron Engraver software. For a clean appearance, the buttons may be removed and covered using the no-button covers provided.

Occupancy Sensing

Crestron GLS Series room occupancy sensors^[3] can be connected directly to the TPMC-4SM-FD to detect when no one has shown up for a scheduled meeting. In such an event, the current reservation can be cancelled automatically to make the room available to others.

Proximity Sensor

As you approach the TPMC-4SM-FD, it senses your presence and wakes the screen automatically, allowing room status and meeting details to be viewed without having to touch the screen.

Custom User Mode

Just like any other Crestron touch screen, the TPMC-4SM-FD can be custom programmed for all types of applications. The TPMC-4SM-FD supports Smart Graphics to deliver the ultimate user experience for controlling AV, lighting, shades, HVAC, and other functions. Additional enhancements include support for H.264 streaming video, Rava[®] SIP intercom, and audio feedback.

Single-Wire Connectivity

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

Power over Ethernet

Using PoE technology, the TPMC-4SM-FD 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^[3]) simply connects in line with the LAN cable at any convenient location. Crestron PoE switches (CEN-SW-POE-5 or CEN-SWPOE-16^[3]) may also be used to provide a total networking solution with built-in PoE.

Versatile Mounting Options

The TPMC-4SM-FD installs easily using a 1-gang or 2-gang electrical box or a 2-gang UK electrical box. It can also be attached directly to drwall and other surfaces over the front of a roughly 2 inch (51 mm) square hole. It requires just 1/2-inch (12 mm) mounting depth while protruding less than an inch (22 mm) from the wall surface.^[1]

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 pushbuttons, translucent backlit, for scheduling functions (default) or programmable for any function
Feedback/Backlight: (1) Red and (1) green LED per hard key, for room status indication (default) or programmable for custom 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^[2]

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

Audio^[2]

Features: Built-in microphone and speaker, Rava[®] SIP Intercom, Crestron IP Intercom

Audio Feedback Formats: MP3 using Smart Graphics, WAV using “traditional” graphics

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Connectors

LAN PoE: (1) 8-pin 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 "NS" type occupancy sensors

Power Requirements

Power over Ethernet: IEEE 802.3at Type 1 (802.3af compatible) Class 3 (12.95 W) PoE Powered Device

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: Surface mount^[1], or mounts to a vertically-oriented 1-gang or 2-gang electrical box^[1], a horizontally-oriented 1-gang electrical box^[1], or a 2-Gang UK (BS 4662) electrical box; choice of standard or security screws provided

Dimensions

Height: 4.00 in (102 mm)
Width: 6.20 in (158 mm)
Depth: 1.28 in (33 mm)

Weight

9.5 oz (268 g)

MODELS & ACCESSORIES

Available Models

TPMC-4SM-FD-B-S: 4.3" Room Scheduling Touch Screen, Black Smooth
TPMC-4SM-FD-W-S: 4.3" Room Scheduling Touch Screen, White Smooth

Available Accessories

4SM-BTNO: Engravable Button Covers w/Custom Engraving, Set of 2
PWE-4803RU: PoE Injector
CEN-SW-POE-5: 5-Port PoE Switch
CEN-SWPOE-16: 16-Port Managed PoE Switch
GLS-ODT-C-NS: Dual-Technology Ceiling Mount Occupancy Sensor
GLS-OIR-C-NS: Passive Infrared Ceiling Mount Occupancy Sensor
GLS-ODT-W-1200: Dual-Technology Wall Mount Occupancy Sensor
GLS-OIR-W-2500: Passive Infrared Wall Mount Occupancy Sensor

Notes:

1. Requires a minimum surface cut-out or electrical box opening of 1.7 inches (44 mm) high x 2.0 inches (51 mm) wide. See specifications for electrical box compatibility.
2. Enabled through custom programming. Not used for typical room scheduling applications.
3. Item(s) sold separately.

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.

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

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