



Mounting Double-Sided Displays

Spring, 2019

1 Introduction

The double-sided clocks were added to the TimeMachines product line in the Spring of 2019. They function as a natural extension of the POE and WiFi clock product lines that were already available. Customers had been asking for an option that didn't require the purchase of two clocks plus bracketry, and that was at a better price point than other double-sided network clocks available from other vendors. The clocks are available in 2.5-inch digits in 4 and 6 digit formats, as well as 4-inch by 4 digit format, in all color combinations.

As can be seen in the picture to the right, the clocks can be mounted on the side, flush to a ceiling, or dropped from a ceiling with some extra customer-supplied hardware. This document is intended to show the various mounting options, as well as the associated wiring required and the options to support it. All of the mounting options shown are included with each double-sided clock purchase with the exception of the drop mount pipe hardware which can be purchased locally.



2 Cabling

Network, power, and WiFi antenna (if applicable) connections can be made and accessed from a removable top cover on the double-sided clock. The necessary cabling can then be run through 1" diameter holes that are provided in the top and/or the side of the clock. Two plastic plugs are also included with each clock that can be used to plug unused holes. A network extension cable (1-foot) is included with each clock that can be used to bring the network connection to the outside of the clock to simplify setup and final connections. The WiFi version of the clocks also includes a power extension cable (18-inch) for the same purposes. Specific diagrammed instructions for these cabling connections will be included with any order.

3 Side Mount

The side mount option is great when a column or wall is available for mounting and wiring can be run through the same column. The picture to the right shows the side mounting plate attached to the side of the clock. The plate is held in place by four screws. Screw holes are provided in the plate on the top and bottom of the plate. These should be screwed into a solid location such as a wall stud, concrete, or heavy duty anchor to provide a solid mounting location (anchors and mounting screws not included).





4 Flush Ceiling Mount

The flush ceiling mount option allows the clock to be mounted from the top side. The standard option has a fitted top plate held on by four 1/4" screws. These are removed and the larger mounting plate is screwed on in its place. This larger mounting plate has four holes for screw mounting flush to the ceiling or other overhead location. A plastic plug is typically placed into the side hole of the clock and all wiring connections are done through the top hole. In the case of a WiFi clock, the WiFi antenna can be placed above the ceiling for a completely hidden installation.



5 Drop Mount

The drop mount option is the most involved of the mounting types as some hardware must be determined and provided by the installer. The drop mount uses both of the provided top mounting plates. The standard width plate is put in place on top of the clock, as shown on the right, and the flush mount ceiling plate is placed above or below the ceiling. The hole in both plates is 1 inch in diameter and aligned. A 1 inch or smaller OD pipe is run through each hole and held in place with a nut, generally above and below each plate. The length of the drop is determined by the installer. Cables are then run through the pipe to be terminated above the ceiling.



6 Setup and Configuration

The double-sided POE and WiFi clocks use the same setup and configuration procedures as the single-sided versions of each clock. The quick setup reference for each clock type is included in the box and the manuals can be downloaded from the TimeMachines website. They are compatible with TM-Manager and support all the timing functions of the single-sided clocks. The display PCBs are connected in parallel and the double-sided clocks draw essentially the same amount of power as their single-sided counterparts.