

Data Sheet

RailCon Fast Clocks

The FC-001 and FC-002 RailCon Fast Clocks provide railway modellers with scale time to operate their model railway system. The FC-001 is a small clock suitable for small to moderate sized layouts and the FC-002 is designed for large club sized layouts.

Both versions of the fast clock have adjustable ten programmable timing values to give a range of scale times to suit all scales and layout requirements. At the fastest setting the scale time is one scale hour equals approximately five minutes of real time and at the slowest setting the one scale hour is equal to approximately 15 minutes of real time.

The FC-001 has 12.5 mm high numerals and the FC-002 has 50 mm high numerals. The numerals are red and are clearly visible from a wide range of viewing distances.

Operation

The two versions of the clock operate in the same way. They are provided with three push button switches that perform all of the control actions required to operate the clocks.

Pause

The Pause button is used to temporarily hold the clock function while maintaining the display time. It is also used when programming the required scale time.

Back

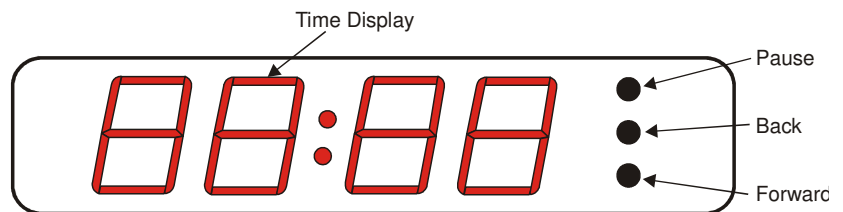
The back button is used to run the clock backward for selecting any desired time going back from the current displayed time. It is also used in conjunction with the Forward button to set the clock to midnight (zero) time.

Forward

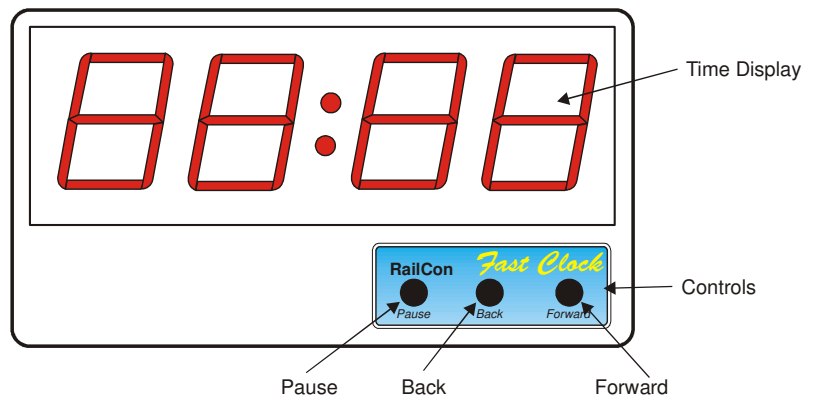
The Forward button is used to run the clock forward for selecting any desired time going forward from the current displayed time. It is also used in conjunction with the Back button to set the clock to midnight (zero) time.

Pause

To pause the clock, press the Pause button once. The display will be held at the current displayed time and the cursor will stop flashing. To restart the clock from the current displayed time, press the Pause button a second time. The colon will recommence flashing and the time will begin to increment.



FC-001 Front Panel



FC-002 Front Panel

Move Backward

To move the displayed time back press and hold the Back button until the desired time is displayed. Release the button.

Move Forward

To move the displayed time forward press and hold the Forward button until the desired time is displayed. Release the button.

Reset to Midnight (Zero)

To reset the clock to midnight, press the Back and Forward buttons together. When the display shows all zeros release both buttons and the clock will commence timing starting at midnight.

Programming

The fast clocks have ten scale time settings available. The required scale time is selected by programming the clock to the desired scale time. The time scale setting range from 0 to 9 where zero represents the fastest scale time of 1 scale hour = 5 real minutes to 9 that represents 1 scale hour = 15 real minutes. The settings between 0 and 9 each change the scale time by approximately 1 real time minute.

The procedure for programming the scale time is as follows.

1. Press and hold the Pause button for approximately 5 seconds until the display shows the current setting on the right hand digit.
2. Repeatedly press the Forward button to advance the setting until the desired setting is achieved.
3. Press the Pause button once and the time will reset to midnight (zero) and start incrementing at the new scale time.

Powering the Clock

The clock requires 12 V DC power for operation. This can be provided from the layout supply or from plug pack power supply unit.

Connecting power to the clock is via a DC power socket mounted in either the rear panel for the FC-001 clock or on the left hand side for the FC-002 clock. The power socket has a 2.5 mm diameter centre pin with the positive supply connected to the centre pin and the ground, or negative, connected to the outer sheath. A mating DC plug is required.

Caution – Take care when making power connections as incorrect connection will permanently damage the module.

A suitable plug pack can be obtained from Jaycar – part number MP-3147. This is a 12 V DC regulated unit supplied with seven different plugs. Select the plug that mates with the 2.5 mm socket, making sure to connect it with the correct polarity.

