



## Model Train Technology

Sept 2021

Hello Jim,

Today we are announcing our new Sound Controller!



As you will hear in the video, this product has been on the lab bench for quite a while. This was not because it was any more challenging than our other products. Rather, when we finished our design specifications last year we included four separate sensor inputs. However, at the time we didn't have a sensor product!

Then as you know we launched the Precision Sensor earlier this year followed closely by the Signal Controller which was, and is, very popular. All of that activity delayed our getting the Sound Controller finished and ready for market.

The MTT Sound Controller will ship on October 1, 2021. You may place an order for the sound controller separately from other items you might need. The Store will show the item "Available on Backorder".

If you are interested in watching the video you can click on the picture below.



The MTT Sound Controller is unique in many ways. The first is that you can record your own sounds and play them based on sensors triggers or switches - or DCC. The Sound Controller has a small MP3 player inside along with a baffled speaker. It provides a big sound in a small package. What is an MP3 player you might ask?

Here is the Wiki link: <https://simple.wikipedia.org/wiki/MP3>

The first Apple iPod music player played a version of the MP3 file format. It is a file format that compresses and filters audio so that file size is smaller and more manageable.

Here are the primary features:

- You can download or create your own MP3 audio files and play them on the MTT Sound Controller. You can use your PC, Apple Mac or a mobile phone to create audio files. If you use your phone you will need to copy it to your PC and then convert it to MP3. There are many, many free MP3 conversion programs. Eventually we will have a download page where you can download sounds that we have found or recorded. There are also many web sites to which you can subscribe that have MP3 sound files.
- You can record up to 4 minutes of sound.
- There are four tracks available so you can mix and match different length audio.
- Each track can be triggered separately. This is where it gets fun. There is only one MP3 player so only one of the four sounds can play at a time. However, you can set the sounds to play once and stop or play repeatedly. In addition, you can set a sound trigger to interrupt another sound that might be playing. The video has an example of the full range of these features. These features for each track are set via dip switches on the bottom of the Sound Controller so it is very simple to set up.
- The volume of each track can be set and saved separately.
- The Sound Controller's four triggers can be activated by a Precision Sensor; a DCC switch command, a toggle switch or a push button.
- There is a speaker outlet that allows you to connect your own speaker and play the sounds remotely out on the layout. When you plug in the adapter the onboard speaker disconnects.
- NO PROGRAMMING is required.
- A magnetic mounting bracket is available.

[DRAET.MANUAL.CLICK.HERE](#)



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## NEW PRODUCT - MTT PANEL CONTROLLER

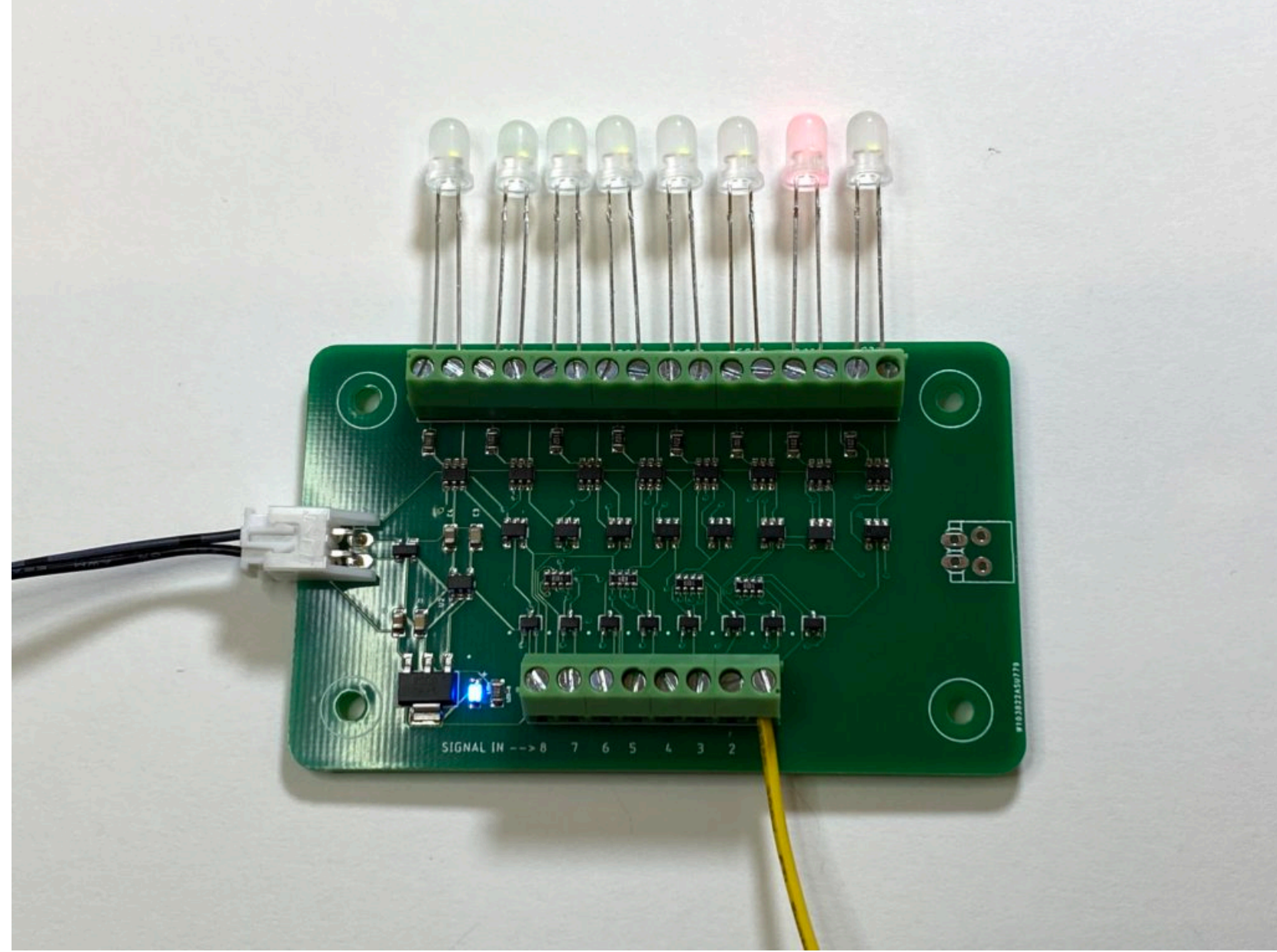
(Yes, if you read this far you get to hear about another new product!)

We have developed a Panel Controller that works in conjunction with our Precision Sensors and allows you to have a Green/Red two wire LED that shows Occupied/UnOccupied. A single signal wire connects to the Precision Detector signal wire while power for the LEDs comes directly from the Power Module. The detector wire can work in parallel with the Signal Controller. Green/Red LEDs come prewired (36") so all you have to do is connect them to the Power Controller. Two sizes of LED are available: 3mm and 5mm round. Simply drill a hole in your panel and insert them from behind. Use a little bit of GemTac glue to keep them in place. (Gemtac is a strong white glue that still allows removal)

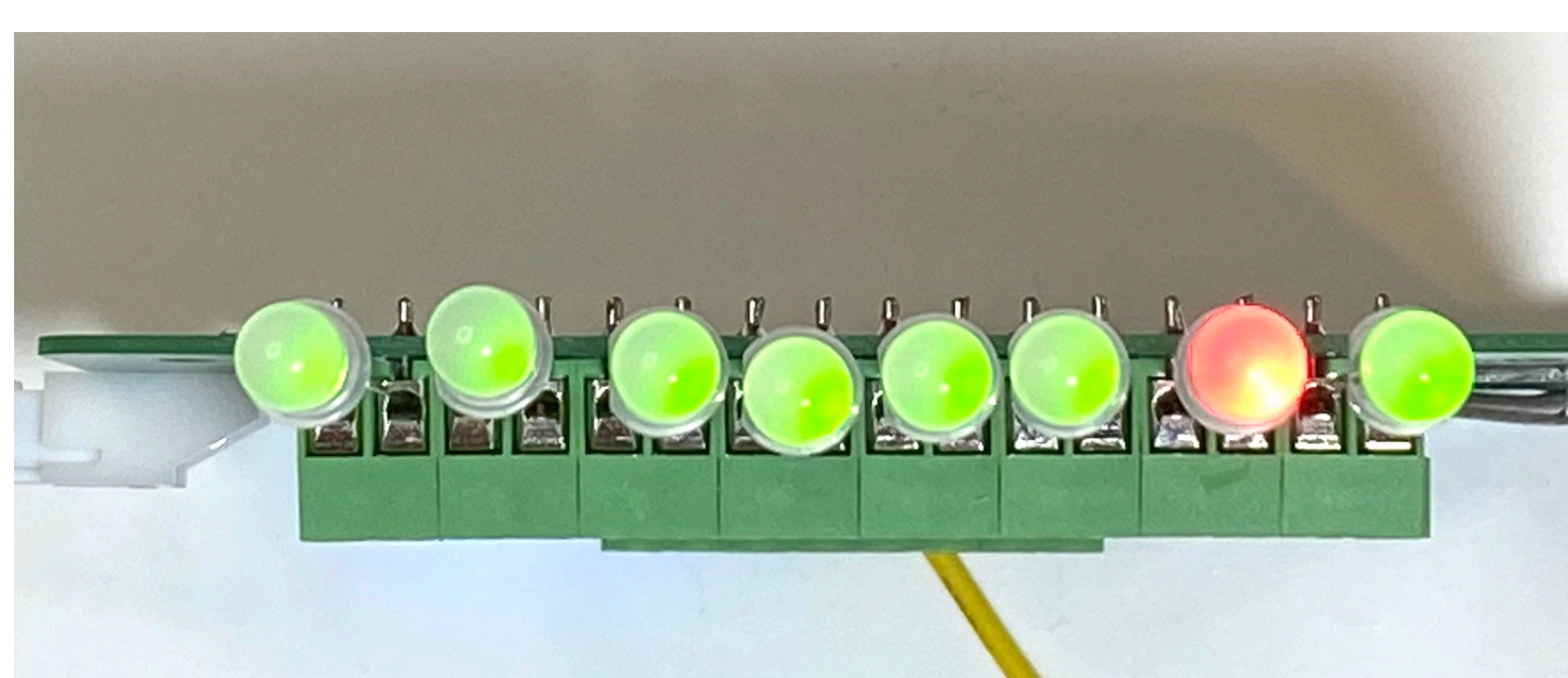
By using a two-wire LED you do not have to worry about wiring. The only mistake you can make is reversing the wires - and then the LED will show Red instead of Green - or vis versa. Just reverse the two LED wires if that is the case. Super Simple.

You do NOT have to worry about Resistors ! We have them on the board already. Simply connect the two LED wires. On the sensor side there is one terminal per sensor. There are 8 detection/indicator circuits per board.

In the picture below the LEDs are shown inserted directly into terminals for DEMO purposes. The LEDs come with a 36" wire attached to each.



LED top view shown below:



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PENNSYLVANIA RAILROAD SIGNALING (PRR)  
LONG ISLAND RAILROAD SIGNALING(LIRR)

UPDATE - the fiber version of the PRR signals are available. IN ADDITION, all Signal Controllers shipped after September 1 have an LIRR (Long Island Railroad) mode. In that case the center light is always on.

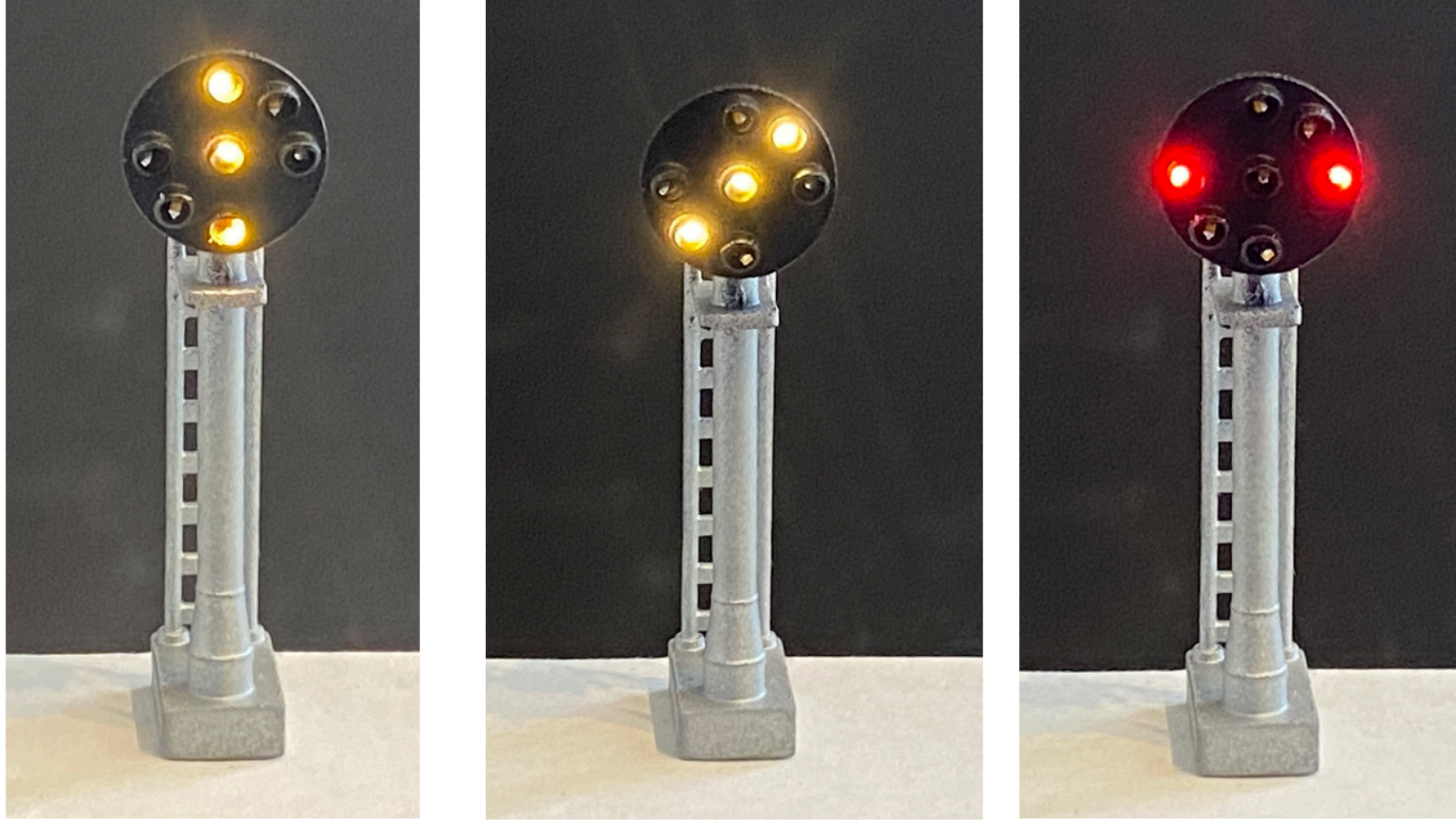
Lastly, two new features were added to all Signal Controllers:

1. Manual STEP mode. This allows the use of a pushbutton to step through each of the signal aspect instead of a Detector.

2. Two RESET modes (10 & 11) which set the Signal Controller to a know Cathode or Anode common state and 3 aspect.

[Link to Model Train Technology Video Page](#)

[Link to the YouTube PRR Video](#)



Signal Controller  
Introduction Video

I've included the link the Precision Detector video if you haven't already seen it.

Precision Detector Video

Until next time, best regards and stay safe and healthy,

Jim

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