



PRODUCT FEATURE

Assured Compatibility: Making Retrofit a Snap!

Ever since the launch of our RGB devices, our customers are asking if they can retrofit the new RGB switches into their old system without any modification. The short answer is YES! A new TS device will behave the same way when plugged into an existing installation using Clockaudio bi-color touch switches. Reason being is that the new devices are wired the same way as the older version so that they can be swapped out. The Cat5e cable coming out of the coupler is already wired to either an I/O port block (or could also be plugged in a CDT100).

For example, connecting the TS005 to an installation wired for CH32 will deliver the same results. Pressing the button will trigger the same command and will light up GREEN and RED, just the way the CH32 was programmed to behave.

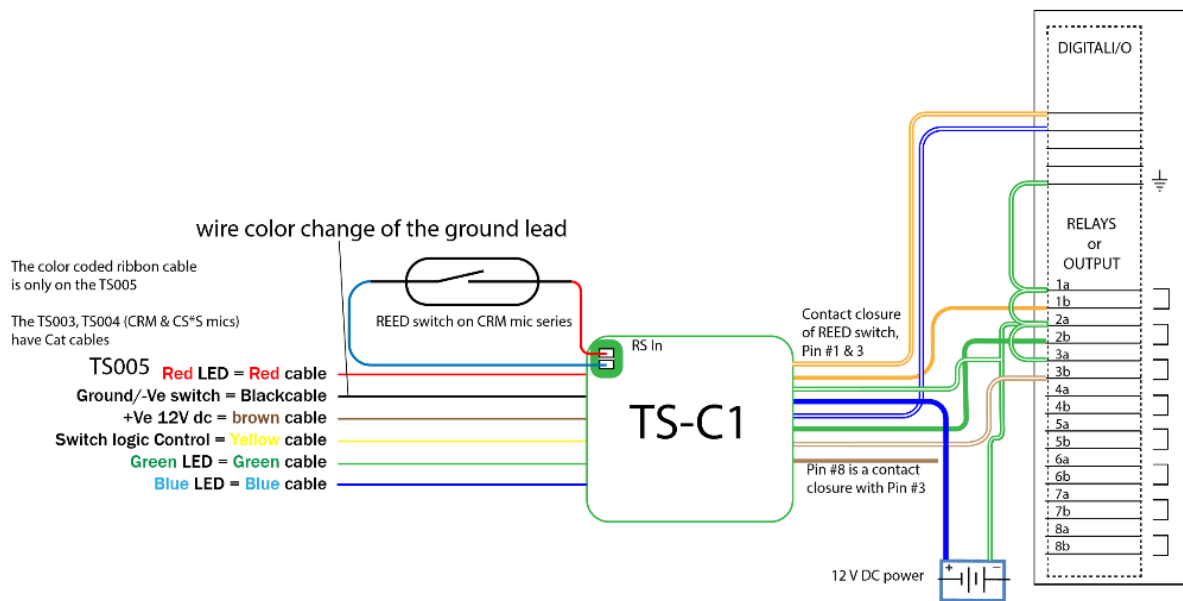
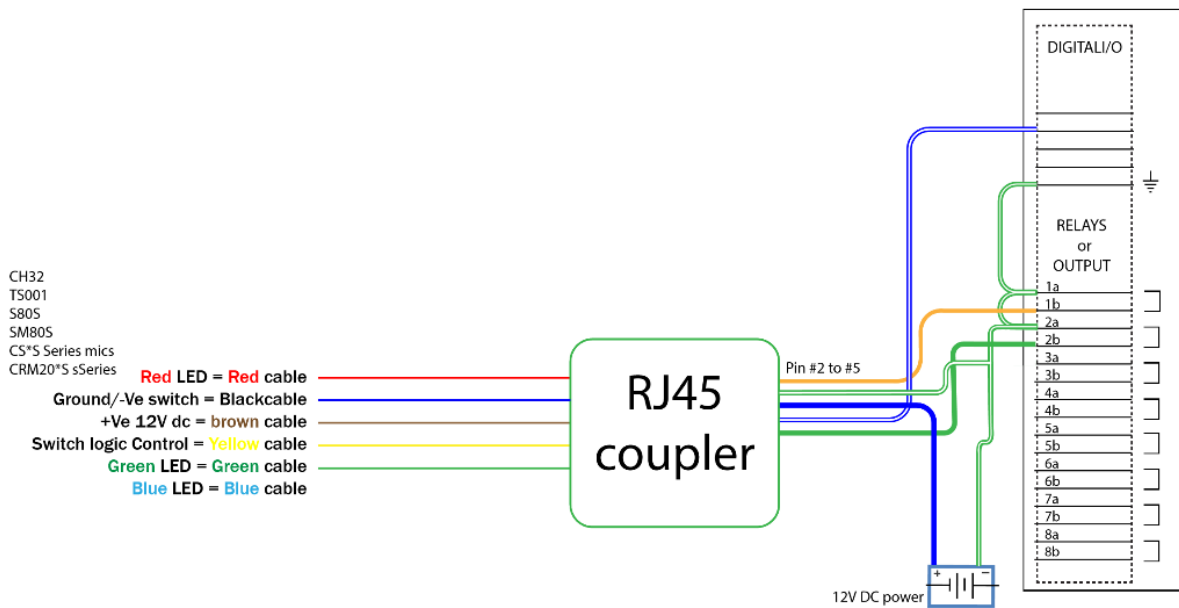
Some may be satisfied with the new look and using the same two colors (GREEN and RED) for notifications. But for those that are looking for another hue, the Blue LEDs can be used to create more status notifications. However, having the extra color in the touch switch will mean you will need to have one extra connection in order to light up the Blue LED. Rest assured that whether you want to retrofit your system's touch switches from CH32 to TS005, or you want to add another color to the devices, the process will be easy and simple.

The TS-C1

The main difference in the design of the new TS003, TS004 & TS005 capacitive switches, is that the electronic circuit is now in an **external housing** called the TS-C1. Installation wise, the TS-C1 replaces the RJ45 coupler that was supplied with the bi-color control devices. The external housing was innovated for easy field servicing. Here are a few wiring diagrams to help illustrate the connections.

For installations using I/O blocks and relays, the readily available white/brown wire of the original Cat5 cable (T568 Code B) can be connected to an unused output pin of the I/O ports or on a relay of the control system or DSP. This is the ground lead of the Blue LED.

Now, all that is left to do is program the control system or DSP to pull that pin to ground and light up the Blue LED for the status of choice. Simple enough?



It is important to note that A first generation CDT100 can only operate the GREEN and RED LEDs. Only the Mark II version of the CDT-100 (CDT100 MkII) is able to drive all three colors.

The timing of the CDT100 upgrade to the MkII version happened a little ahead of the launch of the RGB touch switches. Although we were able to advise our customers about the upcoming RGB switches, some of the earlier installations were completed using the CDT100 MkII along with some CH32s and/or TS001s.

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These bi-color models of touch switches do not require the MkII Dante transporter, but were combined nonetheless in view of a future upgrade. For these particular installations, upgrading to the RGB touch switches will only entail the physical swap of the switches without any extra wiring or connection.

The Cat5 cable (which is likely what the previous installer used to interface the touch switches to the CDT100) already has the extra wire connected to the right Pin of the TS port. From this point, all the system needs now is a little bit of programming.

With PWM drivers for brightness control of each LED on every port, you will be able to dim and combine any or all three colors. Indeed, the CDT100MkII is a powerful interface that connects any Clockaudio microphone and accessory to a DSP and control system via the existing networks.

As always, if you have a technical question, contact our customer support team. We're here to help!