PRODUCT FEATURE

RGB TS Device Specifics

With the launch of our new RGB control devices last year, many have reached out for advice on how to connect them to their peripherals. With the number of calls we get on this subject, we would like to provide some more information and details about these touch switches, the TSC1 and its functions.

To make it simple, we made the new RGB touch switch to be fully compatible with existing installations where CH32s, TS001s and TS002s were used. This enables the integrator to easily replace the previous version with this upgrade.

The electronic core of the switch now resides in an external housing and installs under the table, near the microphone or touch switch. One thing about a capacitive switch though, is that it relies on specific impedance to operate normally. Since the touch sensor is at the end of a cable, that cable will need to be a specific length in order for the switch to work properly.

Important:
The cable to the TS IN port cannot be extended, you must connect the device directly to the TSC1.

We've also double insulated the ribbon cable on The TS003, TS004 and TS005 to prevent it from causing accidental switching by close proximity of a grounding body. However, even with the extra isolation, in operating mode, closing a hand firmly around the ribbon cable will change the impedance of the cable and trigger the switch.

Important: The installation procedure should be first understood and done in the right order.
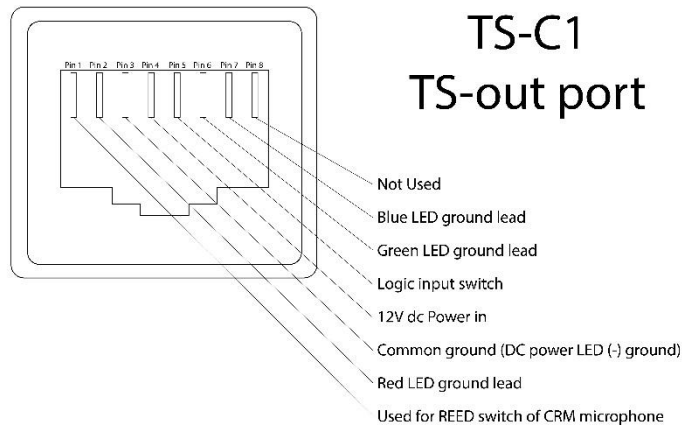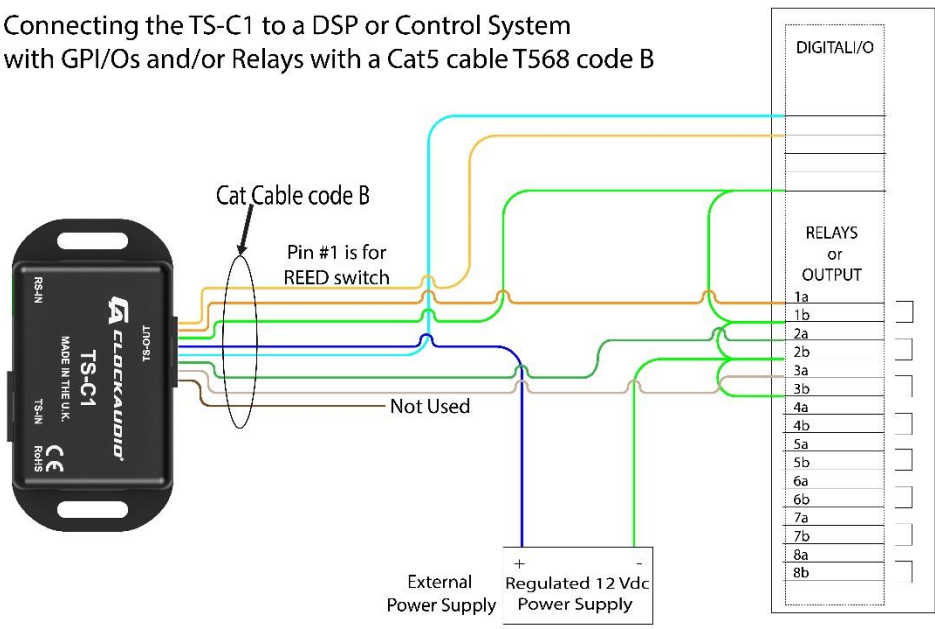Secure the touch switch first, hooking it up to the TS IN port of the TSC1, and then without touching the ribbon cable, connecting the TS OUT port to the control system.

You'll notice that we've added a two-prong phoenix port on the Input side of the TSC1. This port is meant to easily hook up the REED switch of our CRM Retracta microphones. It incorporates the signal in the Cat5 out cable to the control processor.

Using the Clockaudio Dante transporter, CDT100 MkII, is the simplest way to hook up the new devices to your control system. *Not to mention the built-in PWM drivers for each LED color, capable of dimming each LED by 256 steps of brightness.*

For the GPI/O users, below is a basic connection diagram and pin function of the OUT port of the TSC1.

Connecting the TS-C1 to a DSP or Control System
with GPI/Os and/or Relays with a Cat5 cable T568 code B

TS-C1
TS-out port

As always, if you have any questions, contact our customer service and technical support team.