

Hardware Installation and Setup Instructions

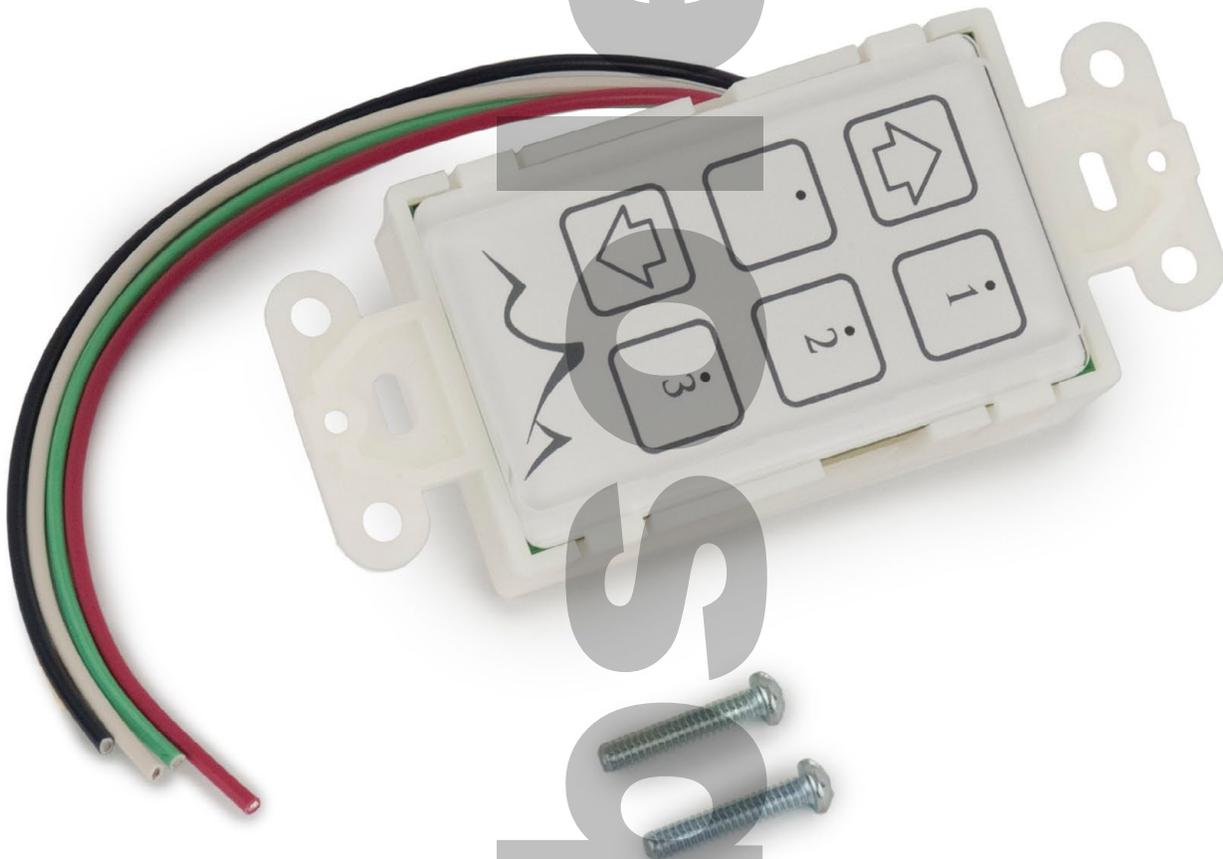


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Attention

This section serves as a notice of the immediate or potential dangers involved when working with the equipment described throughout this manual. Any person involved in installation, maintenance, or service of the equipment should first carefully examine the equipment and read the instructions contained in this manual to ensure that personal and/or equipment injury is avoided.

The following safety messages appear throughout this manual to alert of immediate or potential danger to life as well as property.

	NOTE : Indicates an important note.
	TIP : Indicates a helpful tip or trick.
	SAFETY REMINDER : Applicable safety instructions will be included with this symbol.
	DANGER : Indicates an immediately hazardous situation which, if not avoided, will result in serious injury or death.
	WARNING : Indicates a potentially hazardous situation which, if not avoided, may result in serious injury or death.
	CAUTION : Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Disclaimer

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designated to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Instructions contained in this user's guide should be performed only by qualified persons in accordance with local and national codes. Blue Ridge Technologies International, LLC and its affiliates assume no responsibility for any consequences related to the improper use of this manual.

Overview : Document

This document provides mounting and connection instructions for the following Blue Ridge Technologies Capacitive Touch Station (CTS) products :

- CTS Channel On-Off Stations
- CTS Raise-Lower Stations
- CTS Preset Stations

These CTS models are compatible with the Satellite / Station Network on Zone Control (ZC).

Sections of this Install Guide apply to optional equipment and may not be applicable.

For CTS software configuration refer to the Application Guide.

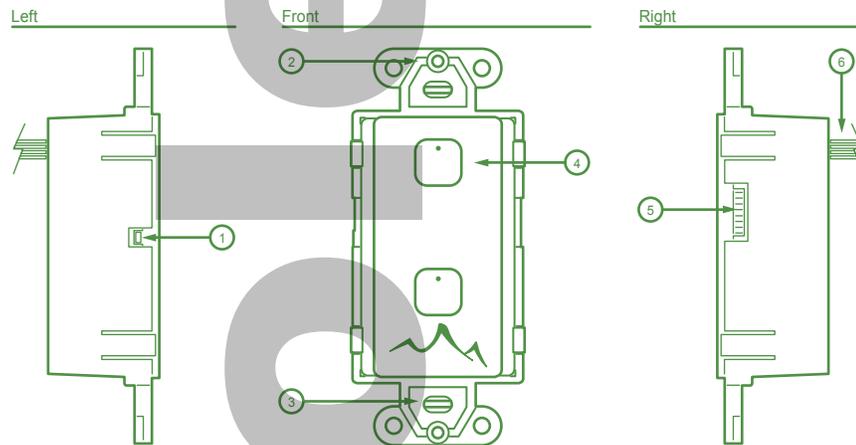
Overview : Component

The CTS includes the following items :

- 1- CTS
- 2- #6/32 Screws

Overview : Assembly

1. Reset Button
2. Wall Plate Fastener Point
3. Mounting Fastener Point
4. Capacitive Touch Button
5. DIP Switch
6. CTS Leads



(Figure 1)

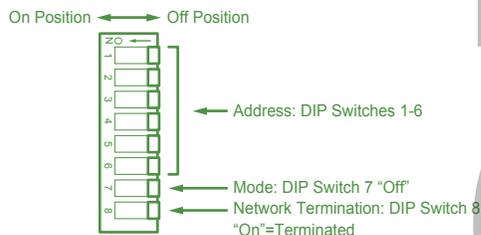
Station Setup

CTS hardware setup is best performed before mounting the station. (Figure 2)

1. Addressing: Each CTS of the same button layout must have a unique address on the Satellite / Station Network. Utilize DIP Switches 1-6 to set the address. (See Address Setting Chart)
2. Mode: Ensure DIP Switch 7 is in the "Off" position.
3. Network Termination: Two devices on the Satellite / Station Network should be set for network termination. If ZC is the end-of-line, terminate ZC and the device at the end of the longest run. If ZC is positioned at a mid-point on the network, terminate devices at the end of the longest runs either side of ZC. To terminate CTS set DIP Switch 8 in the "On" position.

Address Setting Chart

Address	Switches "On"	Address	Switches "On"	Address	Switches "On"
1	1	21	1,3,5	41	1,4,6
2	2	22	2,3,5	42	2,4,6
3	1,2	23	1,2,3,5	43	1,2,4,6
4	3	24	4,5	44	3,4,6
5	1,3	25	1,4,5	45	1,3,4,6
6	2,3	26	2,4,5	46	2,3,4,6
7	1,2,3	27	1,2,4,5	47	1,2,3,4,6
8	4	28	3,4,5	48	5,6
9	1,4	29	1,3,4,5	49	1,5,6
10	2,4	30	2,3,4,5	50	2,5,6
11	1,2,4	31	1,2,3,4,5	51	1,2,5,6
12	3,4	32	6	52	3,5,6
13	1,3,4	33	1,6	53	1,3,5,6
14	2,3,4	34	2,6	54	2,3,5,6
15	1,2,3,4	35	1,2,6	55	1,2,3,5,6
16	5	36	3,6	56	4,5,6
17	1,5	37	1,3,6	57	1,4,5,6
18	2,5	38	2,3,6	58	2,4,5,6
19	1,2,5	39	1,2,3,6	59	1,2,4,5,6
20	3,5	40	4,6	60	3,4,5,6



(Figure 2)



Disconnect power before performing CTS installation.

Before handling any CTS components, the technician should be grounded to prevent circuit board damage.

Connection

CTS is now ready to be connected to the Satellite / Station Network. (Figure 3)

1. Test the Satellite / Station Network for wiring errors, shorts, and proper voltage before connecting CTS.
2. Disconnect power from the switch box.
3. Connect CTS leads to network.

Low Voltage Specification

Power: 24VDC from ZC and SC

Power Draw: 15mA per CTS

Satellite / Station Network Specifications

Protocol: CAN-bus

Maximum Stations: 6 on ZC Standard, up to 12 on ZC Extended (requires 1 SC minimum)

Address: DIP switch selectable

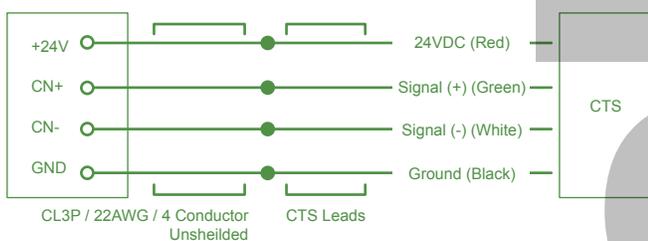
Topology: Free topology, stars and t-taps allowed

Wire Requirement / Maximum Length: CL3P, 22AWG, 4 conductor, Unshielded / 500' (152m)

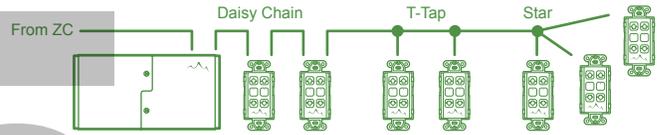
Network Termination: DIP switch

SC / ZC Termination

Satellite / Zone Control



Satellite/Station Network Structure

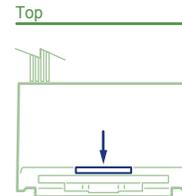


(Figure 3)

Testing

Test CTS for power prior to mounting.

1. Connect power to the CTS.
2. Press an On/Off or Preset button to confirm the station emits an audible chirp.
3. In the event the chirp is not audible confirm power by way of the Power LED. When power is connected the LED will illuminate solid green. The LED is visible from a small opening atop the CTS back box. (Figure 4)



(Figure 4)

Mounting

CTS is now ready to be mounted to the switch box.

1. Position CTS in the switch box.
2. Fasten to switch box with the 2 provided #6/32 screws.
3. Install cover plate.

General Specifications

Mounting: Standard single gang or multi-gang switch box, (2) #6/32 screws (included), and Decorator style wall plate (not included)