

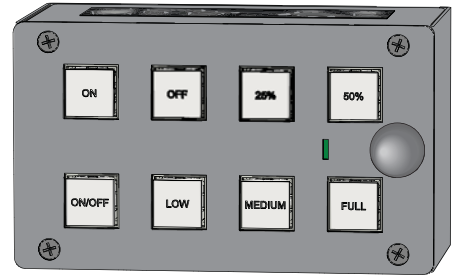
ETC Installation Guide

ArcSystem Eight-Button Station

Overview

ArcSystem Eight-Button Station offers a way to program and recall preset scenes wirelessly. With the ability to recall eight scenes per station from a central TX1 ArcMesh Transmitter, you can easily control your ArcSystem light levels without the need to use a DMX control desk.

The Eight-Button Station is installed in a surface mount enclosure, and includes a rear access knockout for power input wiring. Accepts 100-240 VAC, two wire plus ground. White and black models are available.



Preparing for Installation

The Eight-Button Station can be mounted in portrait or landscape orientation. The following supplies are included:

- 10 sets of 2-part button covers (includes 2 spare)
- Pre-printed label sheet sets, including blank sheets for custom use

The following supplies are required but not included:

- Conduit and conduit fittings
- Phillips head screw driver
- Small slotted screw driver
- Four #10 (4.8 mm) screws and wall anchors as needed



WARNING: RISK OF FIRE OR ELECTRIC SHOCK! Installation requires knowledge of electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.



WARNING: RISK OF FIRE OR ELECTRIC SHOCK! Do not make or alter any open holes in an enclosure of wiring or electrical components during installation.



WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.



Note: *All control wiring should be installed and terminated by a qualified installer and should follow standard wiring installation practices.*



Corporate Headquarters ■ Middleton, WI, USA ■ Tel +608 831 4116 ■ Service: (Americas) service@etcconnect.com

London, UK ■ Tel +44 (0)20 8896 1000 ■ Service: (UK) service@etceurope.com

Rome, IT ■ Tel +39 (06) 32 111 683 ■ Service: (UK) service@etceurope.com

Holzkirchen, DE ■ Tel +49 (80 24) 47 00-0 ■ Service: (DE) techserv-hoki@etcconnect.com

Hong Kong ■ Tel +852 2799 1220 ■ Service: (Asia) service@etcasia.com

Web: etcconnect.com ■ © 2016 Electronic Theatre Controls, Inc.

Product information and specifications subject to change. ETC intends this document to be provided in its entirety.

7490M2140 ■ Rev A ■ Released 2017-04

ETC Installation Guide

ArcSystem Eight-Button Station

Installation Requirements

- indoor installation only: 0-40°C, 5-95% non-condensing humidity
- installation location must support 1.5 lb (0.86 kg)



Note: *Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components. Do not make or alter any open holes in an enclosure of wiring or electrical components during installation.*

Power Requirements

Accepts a single phase 100-240 VAC, 50/60 Hz power input (two wire, 10-20 AWG, 0.5-6 mm²), which terminates to the power input terminal block, plus a ground wire which terminates to the copper ground lug. Accepts maximum of 2W power.

Installation should follow all local codes and standard electrical practices.

Power Disconnect Device

Before you begin installation, make sure you have a main circuit breaker cabinet or other readily accessible input power disconnect device installed ahead of your ArcSystem Eight-Button Station.



Note: *A readily accessible disconnect device shall be incorporated external to the equipment. Maximum listed branch circuit protection rated 250V, 20A. Short Circuit Current Rating 10kA. Branch circuit protection provided by others.*



WARNING: **A system without an accessible power disconnect device cannot be serviced or operated safely. Follow all local codes and restrictions.**

Mounting



Note: *Use suitable conduit where required by local/national code.*

- 1: The rear of the Eight-Button Station enclosure provides a single conduit knockout for input power wiring access. Per local code, install conduit to the installation location.
- 2: Remove the four screws securing the button station to the enclosure. The button station is tethered to the enclosure. Be careful when handling.
- 3: Fold the Nomex barrier away from the back of the enclosure to access the input power terminal.
- 4: Using four #10 (4.8 mm) screws (not provided), mount the enclosure to the mounting surface.
- 5: Attach conduit fittings to the enclosure. Use only the provided conduit knockout. Do not make or alter any open holes in the enclosure.

ETC Installation Guide

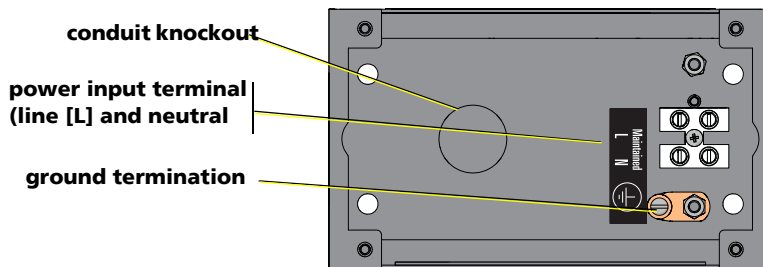
ArcSystem Eight-Button Station

Terminate Wiring



WARNING: RISK OF DEATH BY ELECTRIC SHOCK! Before terminating the AC power wiring verify the main breaker is in the off position and follow the proper lockout/tag out procedures per NFPA Standard 70E.

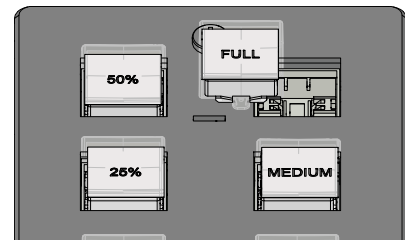
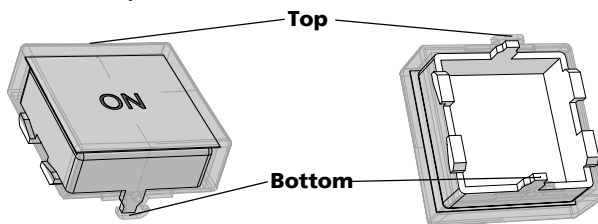
- 1: Pull the line, neutral, and ground wires to the unit through the conduit opening previously prepared.
- 2: Strip each wire to 0.3 in. (7 mm).
- 3: Insert the ground wire into the copper ground lug (as labeled), then tighten the lug screw firmly onto the wire. Tug slightly on wire to ensure a secure fit.
- 4: Insert the line (input feed) and neutral wire into their respective power input terminal blocks (as labeled) and tighten the screw to secure (0.59 ft lb [0.8 Nm]). Tug slightly on wire to ensure a secure fit.



- 5: Replace the Nomex barrier.
- 6: Replace the front station and reinstall the four screws previously removed.

Installing the Buttons

- 1: Cut out required button sticker and place on the white diffuser.
- 2: Ensure correct orientation. (Single leg at top and bottom)
- 3: Place the clear button cover on top of the labeled button cover, ensuring the legs are oriented correctly.



Note: *If you want the button station to be in landscape orientation, adjust the sticker by 90°.*

- 4: Press the assembled button into place ensuring correct orientation (single leg at top and bottom). Button will click into place when inserted correctly.

ETC Installation Guide

ArcSystem Eight-Button Station

Initial Power up and Commissioning

Indicators

The status LED on the front station will illuminate solid red for power and flashing green for normal processor activity. All buttons will illuminate blue when in standby and each button will illuminate white when active. The commissioning software allows different settings for the button illumination intensity and can disable the flashing status LED if desired.

Setup and Maintenance



WARNING: RISK OF DEATH BY ELECTRIC SHOCK! Failure to disconnect all power to the system before maintenance, cleaning or other system modification, could result in serious injury or death.

De-energize the main feed to the ArcSystem Eight-Button Station and follow appropriate Lockout/Tagout procedures as described in NFPA Standard 70E.

Programming of the station and presets is done through the ArcSystem configuration tool at time of system commissioning. This programming will be carried out by an ETC certified technician. Each of the eight buttons can be programmed to call any of twenty four scenes stored within the TX1 ArcMesh Transmitter. Multiple Eight-Button Stations in the same installation can be configured to call different configurations of the twenty four available scenes.

Locking Out Button Stations

In order to prevent accidental or unauthorized control via an Eight-Button Station, the TX1 ArcMesh Transmitter allows a single DMX address to be reserved for locking out all button stations.

Help from ETC Technical Services

If you experience difficulty during setup or installation of the ArcSystem Eight-Button Station, additional information is available from etcconnect.com, or by contacting ETC Technical Services at your local office listed at the bottom of the first page.