

Thank you for purchasing our Xilica - NeuPanel Series - **Mini** model wall control/s. Our NeuPanel Series programmable remote controls are DHCP enabled network devices and provide user access to on/off functions, volume level adjustments, and preset selection features in conjunction with our Neutrino and Uno Series digital processors. All NeuPanel controls are available in black or white and offer a variety of mounting options that includes surface mount, flush mount, and rack mount.

All Mini control models feature the same physical footprint and are designed to fit into a N. America 2-gang electrical box for flush mounting or surface mounted using the included surface box. Each Mini model includes a method to label the assigned functions giving users a general understanding of the controller's function as well as a clean professional look.

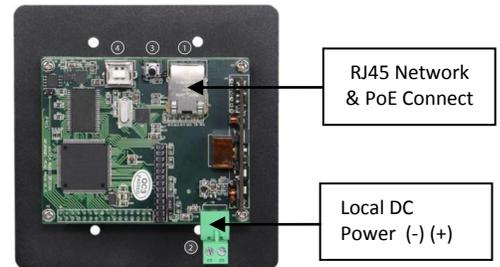
Our NeuPanel Series Touch 7 surface or flush mount touch control model requires a larger installation area and comes with an included custom back box and adapter plate to flush mount it. For installation of the Touch 7, refer to its own installation guide.



All NeuPanel Series controls and Neutrino and Uno Series processors are based on Ethernet protocol and connect to the network via standard Ethernet CAT5e/6 cable. They are powered either by a local 5V DC power supply that is included or by a PoE (Power over Ethernet) network switch or a PoE injector (not included).

Refer to rear image of Mini control at right for connections.

If using the external power supply it is important to pay attention to the wiring polarity. Next to the external power header the PCB has indicators identifying which terminal is positive and which is negative - as shown at right.

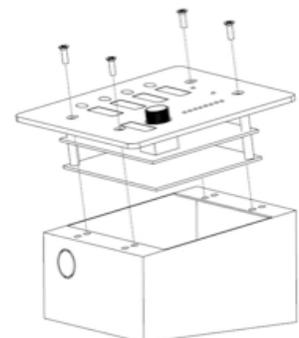


This installation guide illustrates the different mounting options available and the steps to properly install and connect our NeuPanel Series - Mini controls.

For Mini control - programming, operation, and network connection - refer to the Mini Quick Start Guide in the NeuConsole software Help File or from our web site along with relevant instructional video tutorials available at www.xilica.com.

Surface Mount

Included with each Mini control is a surface mount back box that the Mini comes mounted into inside the product carton. This back box is designed to be mounted externally on a wall or surface. The surface back box has an angled mounting surface that allows the Mini control to be rotated to meet the desired view angle and is secured to the back box with 4 x M8 metric screws.



Note: It is always recommended before installing the device to disconnect the power to prevent the power from shorting to the chassis.

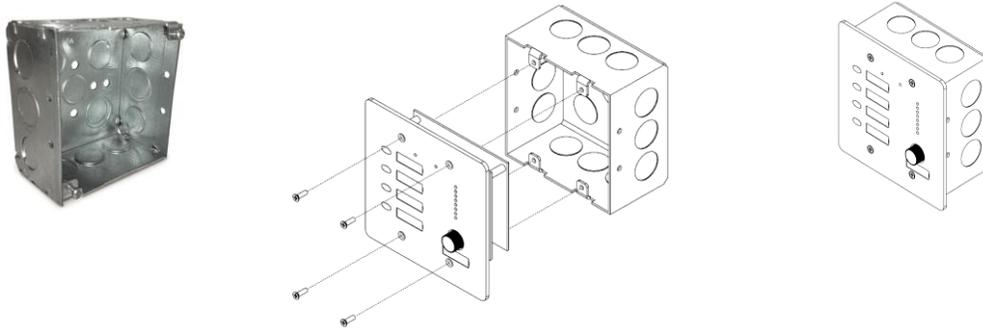
Flush Wall Mount

Mini controls can be flush in-wall mounted in new or existing construction applications. It is very important to read this guide in its entirety before starting your installation.

Note: Each Mini model comes in its carton inserted into a surface mount angled back box. Remove the Mini from our back box. The 4 screws are M8 metric thread. These screws cannot be used in electrical boxes in N. America. Use the 4 x #6-32 SAE screws that come in a bag with each Mini for installations in N. America.

It is extremely important that the Mini control is NOT powered on during the installation or removal process. The circuit board can short out against the metallic box, damaging the hardware, and possibly the PoE switch.

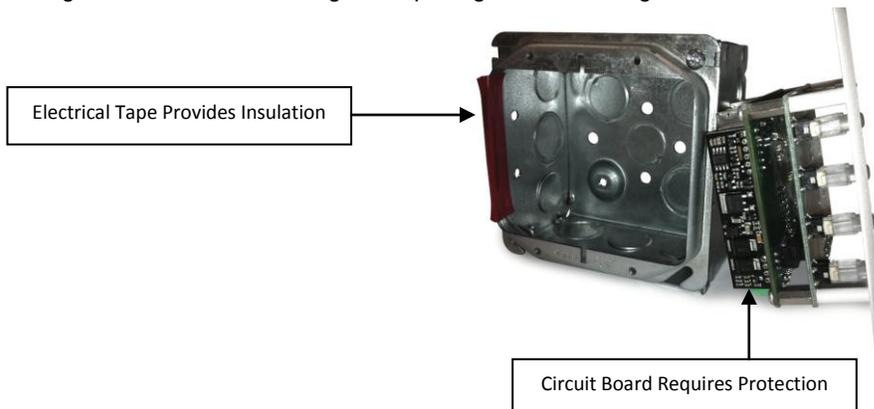
For **New Work Construction**, a 4" x 4" electrical back box with a minimum depth of 2" and a mud ring (if used) with a depth of 1/2" for proper clearance are required.



Note: If mud rings are used - they may vary slightly depending on the manufacturer and depth of the ring itself. It may be necessary to modify the corners of the mud ring for proper fit. The corners on the mud ring as shown below right have a larger radius than the one on the left and will need a bit of filing for the Mini wall controller to fit. (The Appleton 1/2" mud ring shown at the left below will fit without modification)



Under very special situations the wall controller may have to be installed "Live" or in a powered on state. This is NOT recommended, however, it is possible to insulate the left portion of the mud ring with a large piece of electrical tape. This will insulate it from the circuit board while sliding the wall controller through the opening of the mud ring.



For **Existing/Old Work Construction** applications, we recommend using either an old work cut in/clamp in style full back box like the Thomas & Betts BH234 shown below left or an old work cut-in/clamp In style mounting ring/bracket like the Cooper Industries B-Line cut-in ring part # BB20L shown below right - or other brands - which will fit nicely as it lies thin and flat against the wall. Again, use the 4 x $\frac{6}{32}$ SAE screws that come in a bag with each Mini for this N. America brand of mounting ring. Use the included M8 metric screws for cut-In rings from Europe or Asia.

Note: If the wall is insulated it is important that the wall insulation is moved away from the wall controller for proper convection cooling.



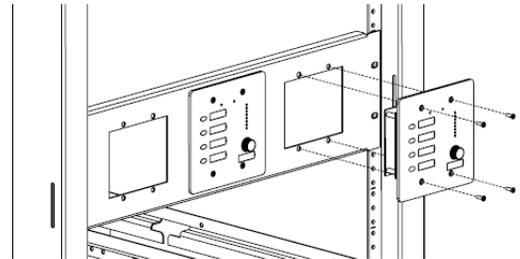
Rack Mount

Many installations require the system controllers to be mounted in an equipment rack. Xilica offers our optional Mini-RMKIT - a 19", 3RU rack mount panel with pre-cut 2-gang threaded cutouts that you can flush mount up to three (3) Mini controls into. As shown at the right.

When rack mounting Mini control units, they can be powered locally using the included external power supply. **Note:** The 5VDC power supply can be daisy chained to more than one Mini control in the rack. A PoE switch or injector can also be used in lieu of the external power supply.

Use the 4 x M8 metric thread screws that are used to mount the Mini control into its supplied surface mount box included in the product carton when mounting the Mini controls into our Mini-RMKIT rack mount panel (or back boxes and adapters manufactured In Europe and Asia).

Use the $\frac{6}{32}$ SAE screws that come in the bag with each Mini control to mount the Mini controls into any rack mount panel, back box, or adapters manufactured in N. America.

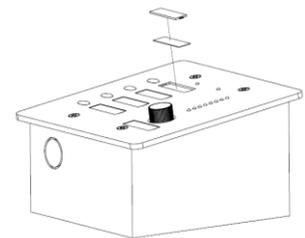


Labeling Mini Controls

Each Mini control model includes a method to label the assigned functions giving users a general understanding of the controller's function as well as a clean professional look. For each function a recessed label slot area with a clear plastic cover has been incorporated providing a flush look. The clear plastic cover snaps into place after the label has been installed.

The maximum label size is .95" W (24mm) x .275" H (6.8mm). A professional labeling device or a standard office-labeling machine such as a Brother P-Touch with 6mm width tape can be used to create your Mini control labels.

Or, an Excel template is available that was designed to allow the integrator to create labels. This template can be found on the Xilica web site at www.xilica.com.



Mini Control - Wall Mounting Requirements

Surface Mount

1. Surface mount back box/can and Mini mounting screws - 4 x M8 metric thread - are included in the product carton
2. CAT5e or CAT6 cable with a RJ45 connector
3. Power - PoE switch or PoE injector (not included) or 5VDC external power supply (included)
4. Screws to mount Mini surface mount back box to the wall or surface (not included)

Flush Mount

New Construction

1. Electrical back box/can, 2 gang, 2" deep (not included)
2. Mud ring (if utilized), 2 gang $\frac{1}{2}$ " or $\frac{3}{4}$ " depending on installation (not included)

Note: The internal corners of different cut-in ring/box brands can vary and interference may be an issue. It is important to know some minor corner modifications may be required.

3. $\frac{5}{32}$ x .75" Qty 4 screws (included in a bag with each Mini) to mount the Mini control into N. America new construction electrical boxes. Or use the supplied metric M8 screws that are used to mount the Mini control into the supplied surface box included in the product carton for new construction electrical boxes In Europe and Asia.
4. CAT5e or CAT6 cable with a RJ45 connector
5. Power - PoE switch or PoE injector (not Included) or 5VDC external power supply (included)

Existing Construction

1. 2 gang cut in ring (not included)

The Cooper Industries B-Line brand of cut-in ring part # BB20L (N. America) will fit nicely as it lies thin and flat against the wall

Note: The internal corners of different cut-in ring/box brands can vary and interference may be an issue. It is important to know some minor corner modifications may be required.

2. $\frac{5}{32}$ x .75" Qty 4 screws (included in a bag with each Mini) to mount the Mini control into N. American cut in rings. Or use the supplied M8 metric screws that are used to mount the Mini control into the supplied surface box included in the product carton for existing construction cut-in rings in Europe and Asia.
3. CAT5e or CAT6 cable with a RJ45 connector
4. Power - PoE switch or PoE injector (not Included) or 5VDC external power supply (included)

Rack Mount

Rack Mount 19" Width Racks - 3RU Panel - Pre-Cut 2-Gang Threaded Cutouts (Up to 3 Mini Controls Per Panel)

1. Optional Mini-RMKIT rack mount panel
2. CAT5e or CAT6 cable with a RJ45 connector
3. Power - PoE switch or PoE injector (not included) or 5VDC external power supply (included)
4. Included 4 x M8 metric thread screws to mount the Mini control into the Mini-RMKIT rack mount panel. Or use the $\frac{5}{32}$ x .75" Qty 4 screws (included in a bag with each Mini) to mount the Mini control into rack mount panels manufactured in N. America.