

Overview

The Novara CP-3006 ControlPad (**FG1302-06**) (FIG. 1) with built-in Ethernet port combines a controller with an easy to use 6-button keypad that mounts onto a standard 1 gang US, UK, or EU back box. The ControlPads are configured using the *NOVARA DCS (Device Configuration Software)* software application, available for download from www.amx.com. Refer to the *NOVARA 3000 Series ControlPads Instruction Manual* (available at www.amx.com) for configuration instructions.

The CP-3006 ControlPad can be configured to control volume, input selection, and power for a wide range of A/V devices. The ControlPad connects to AMX's Resource Management Suite® (RMS) which enables web-based remote diagnostics and management through the built-in Ethernet Port. The ControlPads are available in Black, White and Brushed Aluminum finishes.

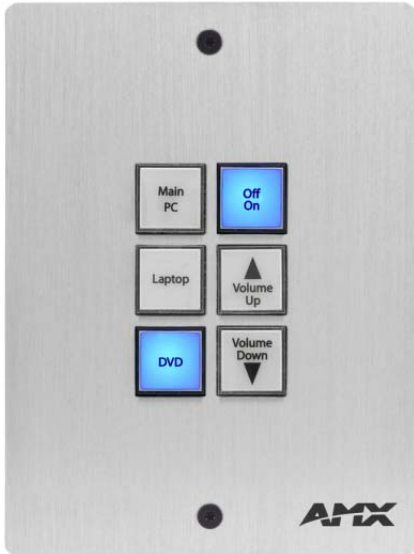


FIG. 1 NOVARA CP-3006 CONTROLPAD

Product Specifications

NOVARA CP-3006 CONTROLPAD	
Power Requirements:	<ul style="list-style-type: none"> Min: 109mA@12 V_{DC} Max: 220mA@12 V_{DC} Using a non-PoE power supply operates on voltages ranging from 9V to 16V continuously.
Button Layout:	• 6 blue backlit buttons with programmable feedback
Colors:	<ul style="list-style-type: none"> Aluminum: FG1302-06-A Black: FG1302-06-B White: FG1302-06-W
Rear Panel Connectors:	<ul style="list-style-type: none"> Power - 1 2-pin Phoenix connector accepting 12V_{DC} power Serial - 1 3-pin Phoenix connector for RS-232 connections. Input voltage: V_{IH} > +2.7 V_{DC} V_{IL} < -2.7 V_{DC} Output voltage: V_{OH} > +5.0 V_{DC} @ 35 mA maximum V_{OL} < -5.0 V_{DC} @ 35 mA maximum IR - 1 2-pin Phoenix connector for IR emitters. Supports generating carriers up to 1.142 MHz. Output only port. Output voltage: V_{OH} = +3.3 V_{DC} +/- 0.3 V_{DC} @ 13 mA maximum V_{OL} = 0 V_{DC} +/- 0.3 V_{DC} @ 13 mA maximum Ethernet - 1 RJ-45 connector for LAN connectivity. Reset - 1 pinhole pushbutton for factory reset.
Supported Baud Rates:	Up to 115200
Dimensions (HWD):	4 11/16" x 3 7/16" x 1 7/16" (11.9cm x 8.8 cm x 3.7 cm)
Operating Environment:	<ul style="list-style-type: none"> Storage temperature range: 14° - 140° F (-10° - 60° C) Operating temperature range: 32° - 104° F (0° - 40° C) Relative humidity: 5% to 85%, non-condensing
Included Accessories:	<ul style="list-style-type: none"> Power Supply, 90-240VACIN, 12VOUT, 500MA (24-5791-SA) Pre-printed labels (40-0087)
Other AMX Equipment:	<ul style="list-style-type: none"> CP-RMS, RMS Gateway Module (FG1310-01) CC-NIRC, NetLinX IR Emitter (FG10-000-11)
Certifications:	FCC Class B, CE, UL, CB Scheme

Mounting Specifications

CP-3006 6-button ControlPads mount onto standard 1 gang US, UK, or EU back boxes. FIG. 2 displays the dimensions for the CP-3006 ControlPad.

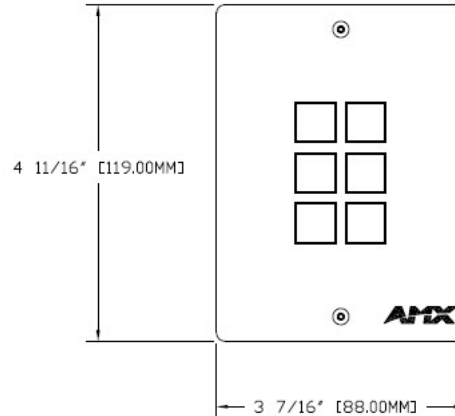


FIG. 2 CP-3006 DIMENSIONS

Wiring and Connections

Power

The CP-3006 features a 2-pin Phoenix connector accepting 12V_{DC} power.

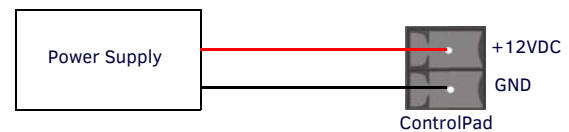


FIG. 3 POWER SUPPLY WIRING

Serial Connectors

The CP-3006 features one RS-232 connector port so you can connect up a serial device to the ControlPad. The serial connector complies with EIA-232-F signal levels.

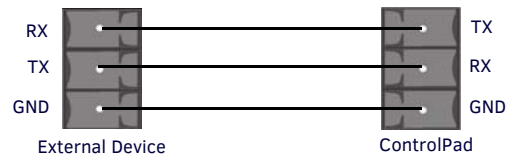


FIG. 4 SERIAL CONNECTOR WIRING

IR Connectors

The CP-3006 features one IR connector port so you can connect an IR-controllable device to the ControlPad. The IR/Serial connector wiring specifications are listed in the following table:

IR CONNECTOR WIRING SPECIFICATIONS		
IR connections	Signal	Function
1	GND (-) Signal 1 (+)	Signal GND IR data

WARNING: Do NOT connect a power connector to the IR port. Doing so may damage the ControlPad.

LAN Port

The LAN RJ-45 port provides 10/100 Mbps communication via Cat5/5e/6 network cable. The LAN port uses standard Cat5/5e/6 cables.

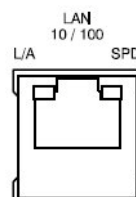


FIG. 5 LAN PORT

Button Labeling

NOVARA ControlPads come with a set of clear plastic Key Caps, which are designed to fit tightly over the pushbuttons, and allow you to place a label on each button according to the requirements of your particular installation.

NOVARA ControlPads also come with a pre-printed acetate sheet with a range of 50 (pre-cut) button label inserts. The button labels provided will accommodate most installations, but it is also possible to print your own button labels on acetate for custom button labeling.

WARNING: Attempting to remove the Key Caps while the faceplate is still installed can damage the unit. Use care when removing the Key Caps. Always remove the faceplate before removing the Key Caps. Mishandling the Key Caps can cause permanent damage to the unit and voids warranty.

Installing Acetate Button Labels and Key Caps - READ THIS FIRST!

- Punch out the desired Button Label from the included acetate sheet.
If you have printed your own custom button labels on acetate, cut each button label to fit inside the Key Caps.
 - Custom button labels must be cut to a **1.14cm (0.45") square** to fit securely inside the Key Caps.
 - The thickness of the acetate used must not exceed **.004" (0.10 mm)**.
- Place the Key Cap face-down, and insert the Button Label into the bottom of the Key Cap (FIG. 6).

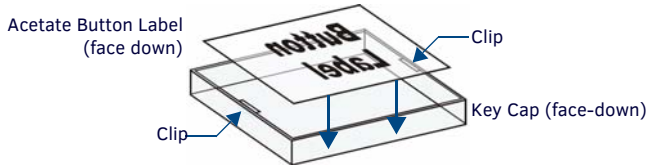


FIG. 6 PLACING A BUTTON LABEL INSIDE A KEY CAP

- Orient the Button Label inside the Key Cap so that the two clips are located on the left and right sides of the readable text on the Button Label, as indicated in FIG. 6.
- Be sure to place the Button Label face-down inside the Key Cap (see FIG. 6), otherwise the label will be seen in reverse once the Key Cap is installed.

- Install the Key Cap on the pushbutton (FIG. 7):

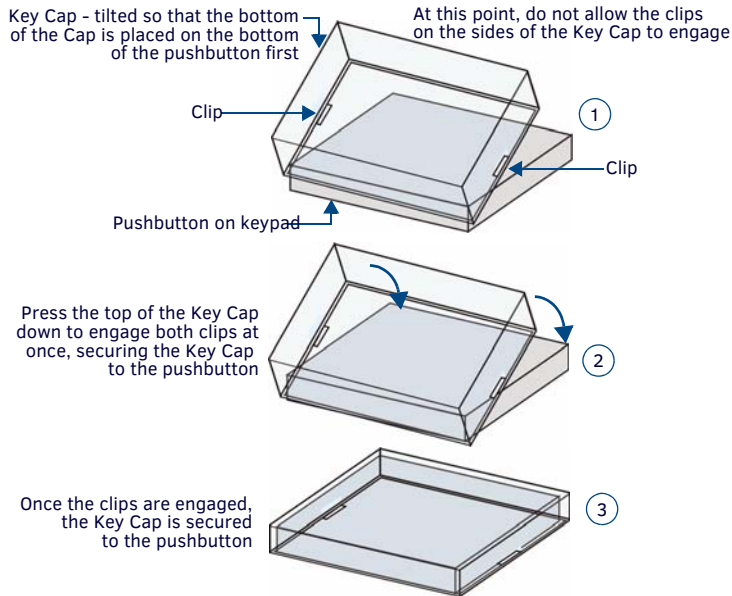


FIG. 7 PLACING A BUTTON LABEL INSIDE A KEY CAP

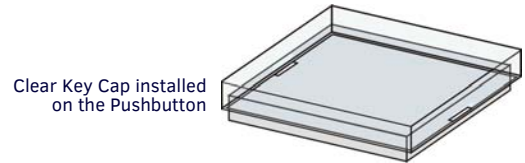
Note: Verify that the vertical orientation of the Button Label is correct relative to the keypad.

- Gently press the bottom of the Key Cap (no clip) onto the pushbutton.
Do not allow the clips on either side to engage.
- With the bottom of the Key Cap secured, gently press the top of the Key Cap. This action will engage both clips simultaneously, and the Key Cap will snap into place on the push button.

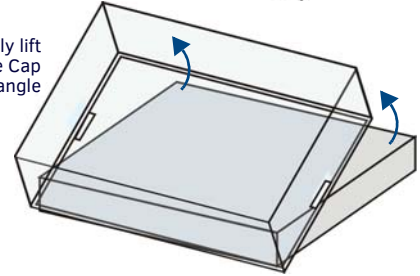
Note: Be careful to follow these procedures closely - the bottom of the Key Cap must be installed on the pushbutton before the Key Cap clips engage, or there is a risk of the button being misaligned.

Removing Key Caps

If a Key Cap needs to be removed, the user should lift it very carefully from one side to prevent damage to the button, as indicated in FIG. 8:



To remove the Key Cap, gently lift up one side to remove the Cap from the Pushbutton at an angle



Avoid lifting the Key Cap straight up from the Pushbutton



FIG. 8 REMOVING A KEY CAP FROM THE PUSHBUTTON

AMX recommends finalizing the ControlPad configuration prior to Key Cap and button label installation to avoid unnecessary removal of Key Caps.

Re-Assembling the ControlPad

- With all button Key Caps in place, put the faceplate over the circuit board.
- Use the supplied #6 screws to secure the faceplate to the circuit board. There are two screw holes on the top of the faceplate rim, and two on the bottom. Use either the Torx screws or #4 Phillips-head screws to attach the faceplate. Use a Torx driver with a T8 tip for the Torx screws; use a Phillips-head screwdriver for the Phillips-head screws.

Additional Documentation

Refer to the *NOVARA 3000-Series ControlPads Instruction Manual* (available at www.amx.com) for additional installation details and configuration instructions.

