

Reverse Engraved Control Panel



Automation
Displays inc.

Custom Design & Manufacture

Automation Displays, Inc.

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1. ASFR ENGRAVED BACK FILLED GRAPHIC PANEL

1.0 General

This specification defines the basic construction and components for a control panel with engraved acrylic laminate. The panel shall have graphics and/or text that describe indicators, switches or other devices and functions of the panel. The panel shall be mounted on a custom control console, desk top turret, wall mounted, rack mounted or other enclosure as required.

2.0 Construction

The graphic panel shall be constructed with .125 inch aluminum substrate bonded to .0625 inch 2-ply reverse engraved acrylic laminate that contains the graphic image. The reverse engraved acrylic laminate shall be non-glare, non-yellowing, durable, and scratch resistant. Holes will be provided in the aluminum substrate and the engraved laminate for switches, indicators and other devices as required. The engraved laminate and aluminum substrate shall be framed with a .25 inch black anodized aluminum frame. Wiring shall be grouped and tie wraps shall be placed in intervals of approximately 4 inches. Wire runs shall be provided as required to assure neat appearance and access to the panel devices.

3.0 Engraved Graphics and Colors

The engraved laminate graphic panel shall be as shown in the architect/engineer plans with black background and colored lines and legends. Engraved lines and legends shall be reverse engraved and back filled with accent colors. Areas of importance shall be highlighted for easy identification. The panel supplier shall furnish a color chart with a minimum of 10 accent colors for architect/engineer selection. The engraved material shall be Hermes II, Romark or approved equal.

3.1 Adhesives

The engraved laminate graphic panel shall be bonded to the aluminum substrate with an adhesive proven not to delaminate in similar applications. The adhesive shall achieve 100% bonding without any creases, bumps, or blemishes in the working surface of the panel.

4.0 Substrate

The substrate shall be .125" aluminum with a clear irridited finish to prevent oxidation. The substrate shall have holes for indicators, digital readouts, switches, etc. as required.

5.0 Panel Devices

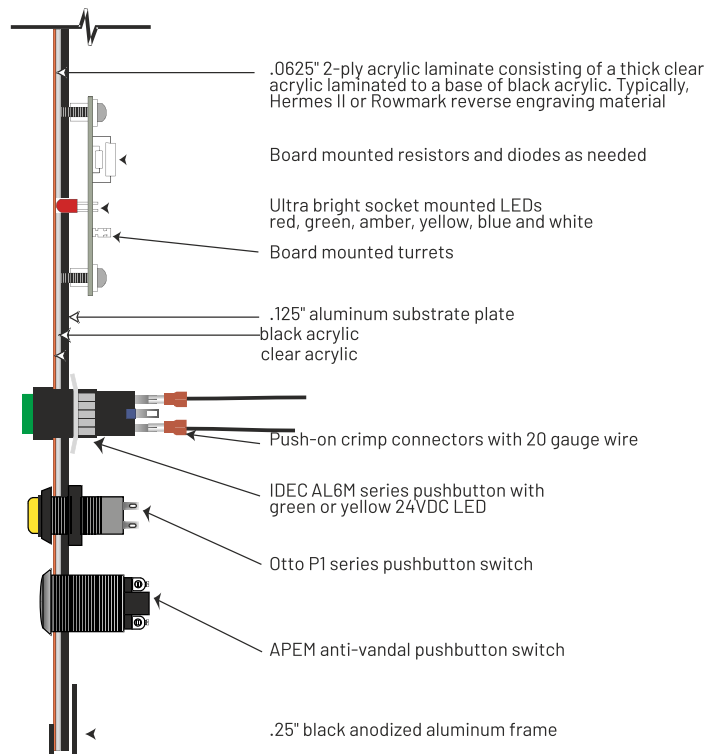
ADI offers a wide variety of panel devices specific to the environment and control application. Switches shall be as specified by the engineer/architect. Typical switches used are (but not limited to): Otto P3 series, Stainless Steel Anti-vandal, Allan Bradley 800 T/H & 800F series, Schneider Electric Harmony 22mm and 30mm switches. LED indicators shall be high intensity LEDs. Mounting options are through the panel mounting and behind the panel.

5.2 Wiring

All panel devices shall be wired to numbered terminal block or multi-pin connectors or serial interface as required.

6.0 Enclosures

Desk top enclosures shall be made of cold rolled steel and assembled using all formed and welded construction. Size and style of the enclosure or mounting shall be determined and approved by the architect/ engineer.



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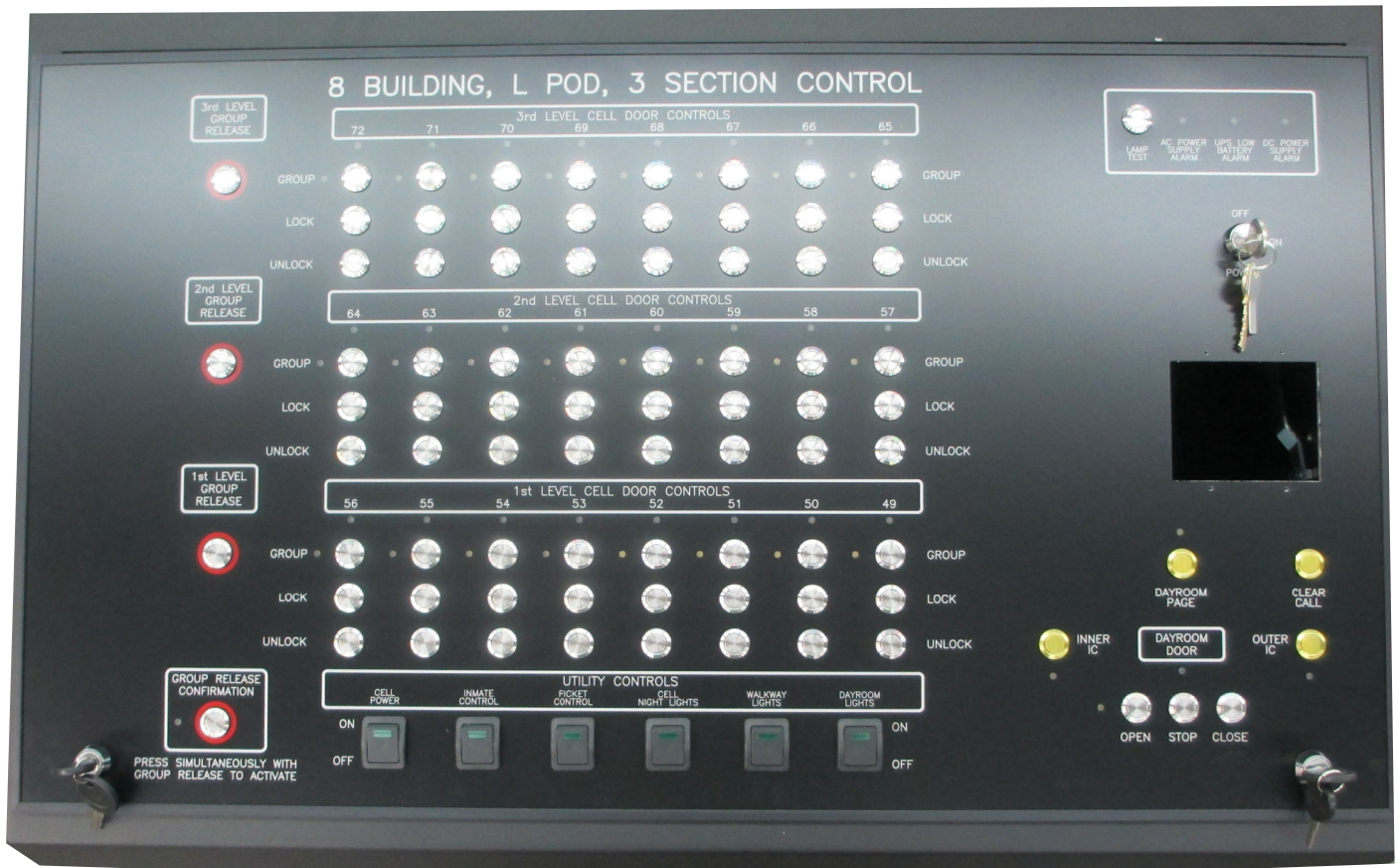
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