

AUTO-FACE VI DETENTION CONTROL PANEL

The **Auto-Face VI Detention Control Panel** is an economical and durable solution to managing critical operations in a detention facility. Designed with numerous through the panel device options, the **Auto-Face VI Detention Control Panel** can be completely customized to fit your application. Manage door controls intercoms, lighting, cameras, and other key operations quickly and easily with an **Auto-Face VI Detention Control Panel**.

1.0 General

This specification defines the basic construction and components for a graphic control panel. The panel shall have graphics and text that describe indicators, switches or other devices and functions of the panel. Graphic may include floor plan layout, riser style diagrams, process flow charts, etc. The panel shall be mounted on a custom control console, desktop 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 graphic a polyester film. The polyester film shall be protected by a non-glare, non-yellowing, durable and scratch resistant vinyl laminate. Holes will be provided in the aluminum substrate and graphic for switches, indicators and other devices as required. All panels will be framed in either cold rolled steel or 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. All panel devices shall be wired to numbered terminal block or multi-pin connectors or serial interface as required.

2.1 Adhesives

The adhesive shall achieve 100% bonding without any creases, bumps, or blemishes in the working surface of the panel.

3.0 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): ITW Series 59, 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.

3.1 Device Options

Device options shall include but are not limited to the following.

Wiring to terminal blocks

Wiring to customer selected connectors

Customer matrix wiring

Multiple commons

LED test diodes

Serial interfaces

ADI's Z-net interface

Mounting and wiring of customer supplied equipment or driver cards.

Complete hardwired system

Programmed annunciator cards

Latching annunciator cards

Power supply and converters

Audible Alarms

Meters, Timers, and Clocks

Microphones

Speakers and Speaker grille

Volume Controls

4.0 Enclosure

Enclosures shall be made of cold rolled steel or Stainless Steel. They will be assembled using all formed and welded construction. Size and Style of enclosure or mounting shall be determined and approved by the architect/engineer.

Typical enclosure options are desktop turret, wall mount, flush mount, and wash down compatible. Enclosures are fully customizable for color, locks, hinges, and raw material.



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AUTO-FACE VI DETENTION CONTROL PANEL

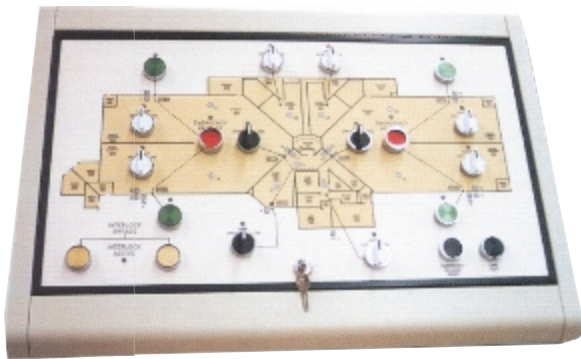


Use Cases:
Manufacturing and Industrial Machines and Processes
HVAC Equipment
Transportation
Military
Services
Benefits:
Streamline Processes
Shorten Reaction Time
Durability
Visual Engagement

The **Auto-Face VI Detention Control Panel** consists of polyester graphic film covered by a protective vinyl laminate, which is bonded to a 1/8" irridited aluminum substrate. The vinyl laminate surface creates a non-glare, durable, scratch resistant and easy to maintain surface that will add years of use to the graphic surface.



The **Auto-Face VI Detention Control Panel** graphic image can be customized to fit a wide range of needs. The actual graphic image can be configured with either colored or black background. A colored background graphic is configured with black lines and legends. Black background graphics have colored lines and legends.



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AUTO-FACE VI DETENTION CONTROL PANEL

Design Data

The **Auto-Face VI Detention Control Panel** is designed to allow maximum flexibility in meeting your project requirements. Trimmed with black anodized aluminum, the **Auto-Face VI Detention Control Panel** can be rack mounted or hinge mounted to facilitate easy access to wiring. All panel devices are wired to multi-pin connectors. Other options for wiring, mounting, and panel devices are listed below.

Wiring and Device Options

- Wiring to terminal blocks
- Wiring to customer selected connectors
- Custom matrix wiring
- Multiple commons
- LED test diodes
- Serial interface
 - RS232 serial interface
 - RS422 serial interface
 - RS485 serial interface
- ADI Z-Net interface
- Mounting and wiring of customer supplied equipment or driver cards
- Complete hardwired systems
- Programmed annunciator cards
- Latched relay annunciator cards
- Power supplies and AC/DC convertors
- Audible alarms
 - Single tone alarm
 - Six tone alarm with volume control
- Time of day clocks
 - 12-hour clock
 - 24-hour clock
- Synchronized clock displays
- Speaker and speaker grille
- Microphones
 - Dynamic microphone
 - Condenser microphone
- Microphone mounting options
 - Through-the-panel mounting
 - Behind the panel mounting
- XLR-3 microphone jacks (standard option)
- Volume controls
- Panel mounted telephone

Panel Mounting Options

- Custom desk top turrets
- Custom control consoles
- Wall mount backboxes
- Rack mount
- Stainless steel frames
- Stainless steel enclosures
- Trim rings for millwork mounting
- Key locks
- Torx head security screws
- Southco knuckle hinges
- Stainless steel hinges

Switch Options

Most panel-mounted switches for control applications are compatible with the AUTO-FACE VI Detention Control Panel. Some typical manufacturers used for detention control include:

- Honeywell, MICRO SWITCH, AML series
- OTTO Engineering, Inc., P series
- Square D/Telemecanique, ZBX series
- Allen Bradley, 800 E series
- IDEC Corporation, A6 series
- EAO Switch Corporation, series 19



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AUTO-FACE VI DETENTION CONTROL PANEL

Engineering/Architect Specification for an Auto-Face VI Detention Control Panel

1.0 GENERAL

This specification defines the basic construction and components for an AUTO-FACE VI Detention Control panel.

2.0 CONSTRUCTION

The panel shall be constructed with a .125" aluminum substrate and a 7 mil. polyester film. The polyester film shall be protected by a non-glare, non-yellowing, durable, and scratch resistant 6- mil. vinyl laminate. Holes will be provided in the aluminum substrate and polyester overlay for switches, indicators and other devices as required. A black anodized aluminum frame shall surround the graphic panel and protect the edge of the graphic film.

Wiring shall be grouped and tie wraps shall be placed at intervals of not less than 4 inches. Wire runs shall be provided as required to sure neat appearance and access to the panel devices.

3.0 CONTROL PANEL

3.1 GRAPHIC COLOR OPTION

3.1.1 COLORED BACKGROUND

The film overlay shall be as shown in the Engineer/ Architect plans with black lines, black legends, and colored background areas. The overlay shall be made of 7-mil. photographic film, having all accent colors applied to the backside of the film. Areas of importance shall be highlighted for easy identification. The panel supplier shall furnish a color chart with a minimum of 22 accent colors for architect selection.

3.1.2 BLACK BACKGROUND

The film overlay shall be as shown in the Engineer/ Architect plans with colored lines, colored legends and black background areas. The overlay shall be made of 7mil. photographic film, having all accent colors applied to the backside of the film. Areas of importance shall be highlighted for easy identification. The panel supplier shall furnish a color chart with a minimum of 22 accent colors for architect selection.

3.2 PANEL SURFACE

The working surface (polyester film with laminate) 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. The working surface shall be a non-glare surface. Translucent areas shall be made in the overlay for backlighted indicators as required.

3.3 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. The substrate may have PEM studs installed around the perimeter of the graphic for mounting the panel to an ADI or customer supplied enclosure.

4.0 INDICATOR LEDS

The indicators shall be high intensity size T-1 3/4 LEDs and rated for normal operation at a current of 20mA. The LEDs shall have an operating life of a minimum of 170,000 hours of continuous or pulsed operation. The body or lens of the LED shall be constructed of high impact plastic. Hewlett Packard HLMP series or equivalent shall be used. The LEDs shall be mounted on .062" printed circuit boards constructed of epoxy glass material (NEMA Type FR4, Grade 10). Resistors and diodes for current limiting and LED test shall be mounted on the printed circuit boards. Solder type pressed in turrets shall be provided for electrical connections. All field wiring shall be terminated on multi-pin connectors or modular screw terminals as required. LEDs mounted through the graphic display panel may be used as alternate indication devices if specified.

4.5 SWITCHES

Switches as required shall be mounted through the display panel. All devices shall be rated for the load handled. All field wiring shall be terminated on multi-pin connectors or modular screw terminals as required. The Engineer/Architect shall define the type of switch.

5.0 ENCLOSURES

Enclosures shall be an ADI desktop turret, wall mount back box, or trim ring. The ADI custom design enclosure shall be made of cold rolled steel and assembled using all welded and formed steel construction. The enclosure shall be primed and painted with baked enamel and a textured finish. The architect shall approve size and style of the enclosure.

6.0 OPTIONS

6.1 DEVICE OPTIONS

Device options shall include: a) microphone, b) volume controls, c) speaker, d) audible alarms, e) time of day clocks, f) panel mounted telephone.



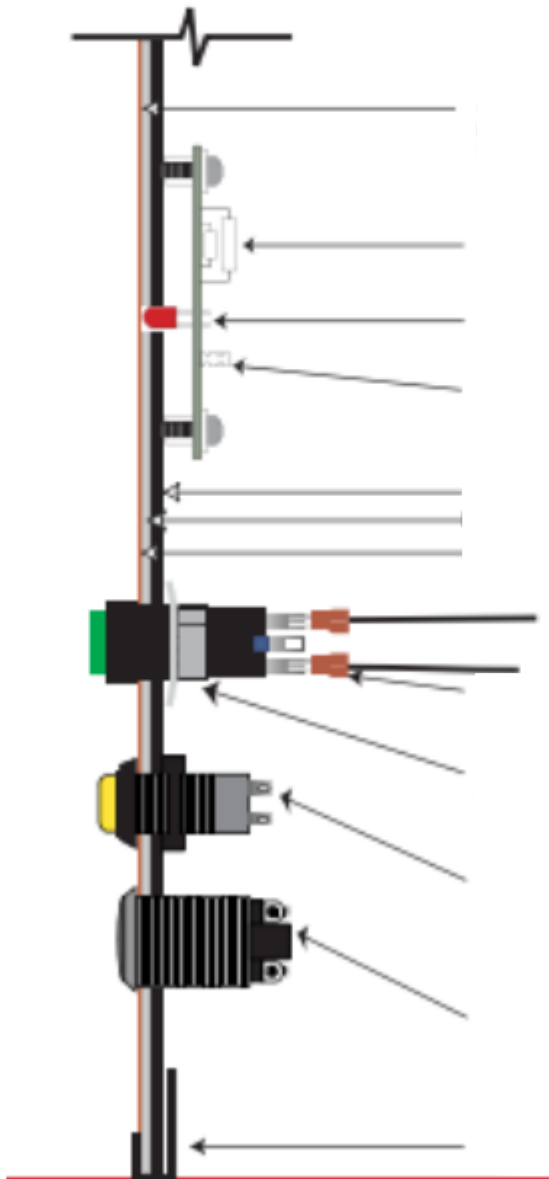
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DETENTION CONTROL PANEL CONSTRUCTION

0.625' 2-ply acrylic laminate consisting of a thick clear acrylic laminated to a base of black acrylic. Typically Hemes II Rowmark revers engraving material.

Board mounted resistors and diodes as needed

Ultra bright socket mounted LED's red, green, amber, yellow, blue and white

Board mounted turrets

.125' aluminium substrate plate

Black acrylic

Clear acrylic

Push-on crimp connectors with 20 gauge wire

IDEC AL 6M series push button with green or yellow 24VDV LED

Otto P1 series push buttons switch

APEM anti-vandal push button switch

25' black anodized aluminium frame



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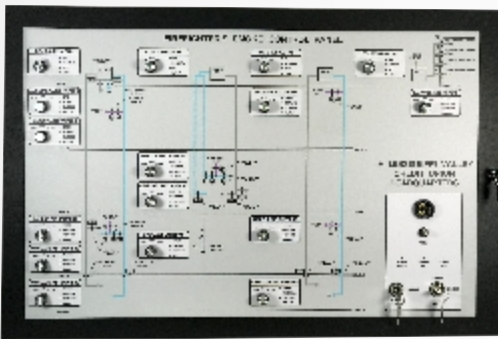
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