

EAO Configurable HMI Panel



EAO, the expert for Human Machine Interface Components and Systems, now offers the EAO Configurable HMI Panel. The EAO Configurable HMI Panel provides a modular and uniquely customizable approach to implementing an HMI control panel in your machine control or fabrication equipment. Applications could be in electronics, medical technology, aerospace, transportation, and CNC machinery.

This configurable panel allows customers to quickly, easily, and inexpensively bring industrial PC control to their equipment. The panel combines standard components with the ability to customize the layout with adaptable switch cut-outs. The panel incorporates durable membrane buttons, an integrated Sharp display, resistive touchscreen, and integration of electromechanical pushbuttons and components.

Main Features:

- Affordable HMI interface design;
- Up to 8 possible auxiliary discrete functions;
- Keylock and emergency stop switch for safety and security;
- Plug-and-play USB interface;
- Illuminated animated buttons and engravable lenses;
- “Easy-label” slide-in legends for function keys;
- Factory configurable illumination sequences;
- Display sizes including 5.7”, 10.4”, or 12.1”;
- Ability to integrate a Sharp display into the panel;
- Individually constructed housing for controller requirements;
- Independent operator PC board for pushbuttons;
- Single board computer integration available;
- Low cost, rapid prototyping.

The EAO Configurable HMI Panel features a standard 5.7” display (10.4” or 12.1” optional), optional resistive touchscreen, and 43 keys. The overall size is 14” x 7” and the front panel is applied to an aluminum plate, ensuring maximum stability.

Front Panel

Overall Size:	14” x 7”/355.6 mm x 177.8 mm
Material:	Polyester PVS-G on Aluminum
Printing:	2 colors, printed on the reverse
Embossing:	All keys embossed
EasyLabel:	Several EasyLabel slide-in pockets for individual labeling of keys

Display

Visible Size:	4.65” x 3.52”/118.2 mm x 89.4 mm
Material:	Acrylic glass S000
Thickness:	0.08”/2.0 mm
Coating:	Non-reflexing, A1

Keys

Number:	43 keys
Operations:	1 million operations/key
Pressure/key:	3 N per key on contact spring
Material:	Gold on silver polymer

Resistive Touchscreen (optional)

Size:	5.7”
Type:	DMC AST 057, resistive
Connector:	USB
Controller:	Integrated

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Electrical Specifications

Voltage: 5V
 Connector: USB (cable included)
 EMC shielding: None
 LED's: 10 LED's, yellow
 User specified for auxiliary discrete pushbuttons and indicators

Mechanical Specifications

Material: Aluminum
 Thickness: 0.12"/3.0 mm
 Surface: Natural anodized
 Mounting: 6 stud bolts FH-832-10 (UNC thread)

Emergency Stop switch

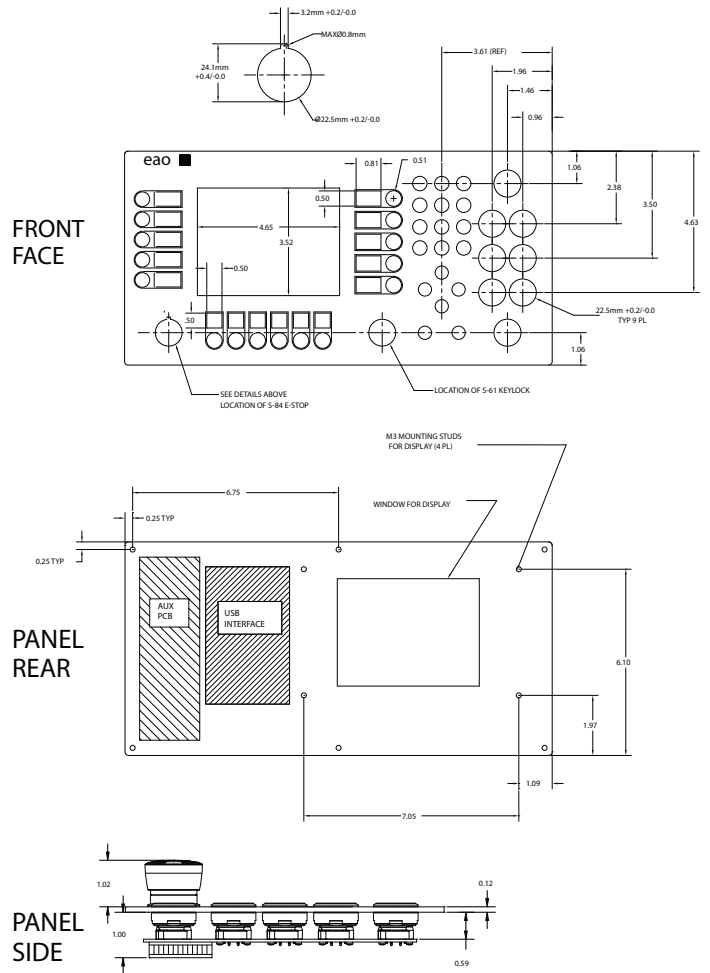
Actuator: Maintained with twist-to-release
 Contact: 1NO/1NC SM contact, solder/plug-in terminals
 Max rating: 3A/250VAC
 Front protection: IP 65 as per EN IEC 60529
 This device complies with:
 EN IEC 60947-5-1, EN IEC 60947-5-5, and ISO 13850

Keylock

Actuator: Flush mount 2 position maintained,
 Key: Removable in "A" position
 Contact: 1NO/1NC SA contact, solder/plug-in terminals
 Max rating: 5A/250VAC
 Front protection: IP 65
 Mechanical life: 50,000 cycles of operations

Illuminated Pushbuttons

Actuator: Flush momentary action
 Contact: 1NO, Max rating: 100mA/42V
 Front protection: IP 65
 Mechanical lifetime: ≥ 1 million cycles of operations
 Customer defined animation sequence:
 Illumination created by 8 SMT LEDs



Switch Position	1	1	2	2	3	3	4	4
Terminal – P1 (top)	1	2	3	4	5	6	7	8

Switch Position	5	5	6	6	7	7	8	8
Terminal – P2	1	2	3	4	5	6	7	8

1. EUS-C-HMI-06-AGL-EK8(5.7" window, acrylic glass lens, no display, E-Stop, keylock, 8 discrete pushbuttons)
2. EUS-C-HMI-06-AGLD-EK8(5.7" window, acrylic glass lens, with display, E-Stop, keylock, 8 discrete pushbuttons)
3. EUS-C-HMI-06-RTS-EK8(5.7" window, acrylic glass lens, resistive touch screen, no display, E-Stop, keylock, 8 discrete pushbuttons)
4. EUS-C-HMI-06-RTSD-EK8(5.7" window, acrylic glass lens, resistive touch screen, with display, E-Stop, keylock, 8 discrete pushbuttons)