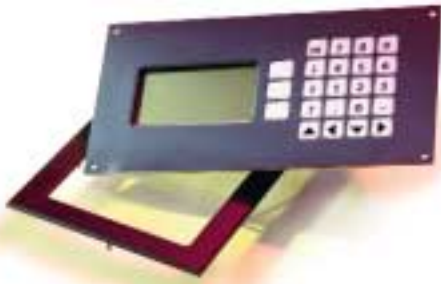




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Omni PK2400

- 2 conditioned 12-bit analog inputs interface directly with a variety of sensors
- Built-in temperature sensor
- 9 protected digital inputs, 2 serial ports, 6 high-current outputs
- 2 built-in non-latching relays switch 2 A at 30 V DC
- 128 x 64 backlit graphic LCD supports geometric shapes and international characters
- Optional bezel (designed to meet NEMA 4 water resistance standards) or wall-mount enclosure



The PK2400 can be flush mounted using the optional bezel and gasket



PK2400 shown with optional enclosure

The PK2400 is a versatile packaged system with analog and digital inputs, and a built-in graphic user interface. Available mounting options include a bezel and a rugged wall-mount case (pictured above).

The standard PK2400 comes with 128K flash and offers 9 protected digital inputs, 2 conditioned 12-bit analog inputs, 6 high-current outputs, 2 non-latching relays, 2 serial ports, 128 x 64 graphic LCD, 4 x 5 keypad, and 3 function keys that correspond to prompts on the LCD.

The keypad and function keys provide tactile feedback. All the keys are programmable, allowing the building of custom interfaces. The legend on the keypad and function key array can be easily changed.

The LCD has electroluminescent back-lighting that can be turned on and off in software. The 128 x 64 pixel matrix is suitable for graphics and international fonts or special characters.

Two 12-bit analog inputs have socketed bias and gain resistors for adjusting the PK2400 to match your inputs. There is an onboard temperature sensor, and a buzzer for audible feedback.

The size of the PK2400 is ideal for applications having limited mounting space or those requiring a slim package. The PK2400 (with optional enclosure) measures just 7.85" x 4.1" x 1.5".

In addition, the PK2400's screw terminals connect easily and accept heavy-gauge wires.

Programming the PK2400

Software is developed for the PK2400 using the Dynamic C[®] 32 software development system. Please see page 6 for a complete description.

Omni Tool Kit

The Omni PK2400 Tool Kit includes an AC adapter, manual with schematics, and programming cable. International orders do not include the AC adapter unless specifically requested.

PK2400 Specifications

Product Size	7.75" x 4.0" x 1.125"
Bezel Size	8.5" x 4.75" x 0.125"
Enclosure Size	7.85" x 4.1" x 1.5"
Operating Temp.	0°C to +50°C
Humidity	5–95%, non-condensing
Power Requirements	9–12 V DC, 150 mA + 30 mA per relay
Configurable I/O	Digital inputs can be pulled up or down
Digital Inputs	9 protected, –20 V to +24 V
Digital Outputs	6 high-current channels. At 25°C, a channel can source up to 250 mA continuously. Output is subject to package power limits and duty cycle. Load limit is 30 V
Relays	2 non-latching SPST relays, rated 2 A at 30 V DC or 0.5 A at 120 V AC. Max switching voltage 125 V with arc suppression circuitry
Analog Inputs	2 conditioned 12-bit channels plus a temperature sensor (also 12-bit)
Analog Outputs	No
Processor	Z180 at 9.216 MHz
SRAM	128K, surface mount (supports 512K)
Flash EPROM	128K, socketed (supports 256K)
Counters	Software-implementable
Serial Ports	1 RS-232 (with RTS/CTS handshake) and 1 RS-485. Selected baud rates up to 57,600 bps
Watchdog/Supervisor	Yes
Time/Date Clock	Yes
Backup Battery	3 V lithium coin-type, 560 mA-h
Keypad and LCD	4 x 5 keypad and 3 additional function keys with tactile feedback. 128 x 64 backlit graphics LCD
Expansion Port	No

Versions

PK2400 Full-featured system. Specifications stated above
PK2410 PK2400 without relays, temperature sensor, analog inputs, or time/date clock. Has 2 additional high-current outputs. 32K SRAM

Options and Upgrades

SIB2. Serial Interface Board. Allows programming through the special programming port on the PK2400, leaving other serial channels available. Includes programming cable

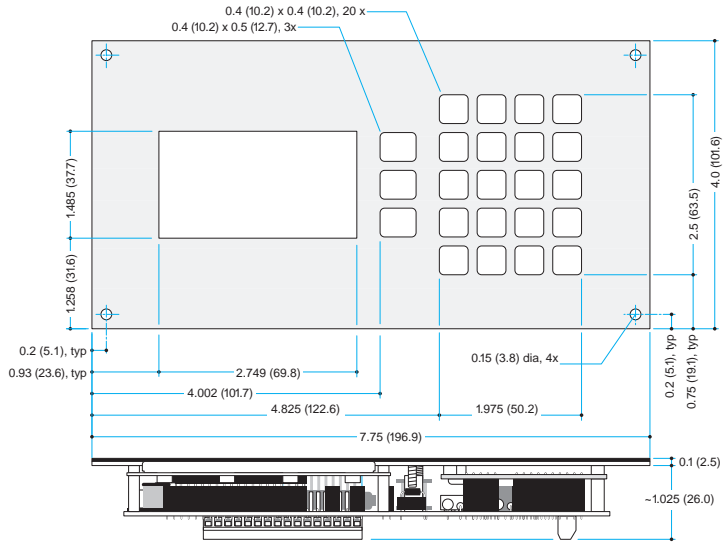
SRAM. 128K or 512K. Factory installed

Flash EPROM. 256K. Factory installed

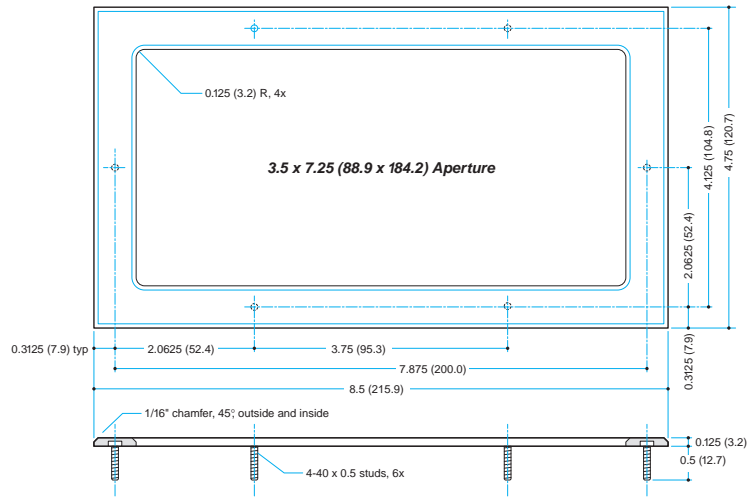
Sinking Driver Kit. Provides 1 (2803) sinking driver chip. At 25°C, a channel can sink up to 500 mA continuously. Output subject to package power limits and duty cycle. Load limit 48 V

Enclosure. Wall-mount case, cold-rolled steel, 7.85" x 4.1" x 1.5"

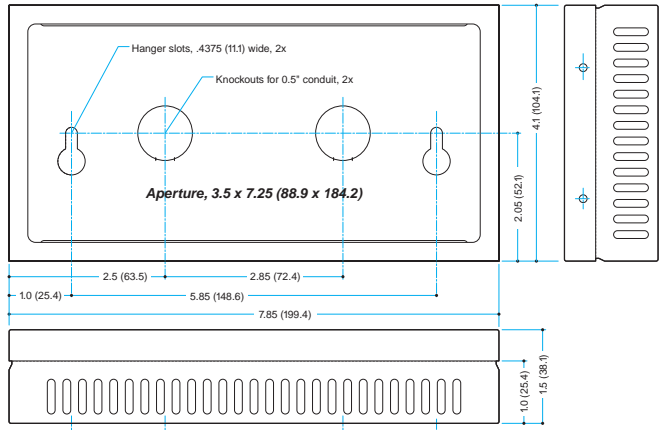
Aluminum Bezel. 8.5" x 4.75" x 0.125." Includes gasket and mounting clips



PK2400 Dimensions



PK2400 Bezel



PK2400 Enclosure