

ENTEK OPI-420 Embedded Controller - Operator Interface



Entek OPI-420 is a combined Operator Interface and Embedded Controller in one complete package. OPI-420 offers a cost effective solution as a versatile display and control device that can be used for a wide range of commercial or industrial applications by Original Equipment Manufacturers. It comes with plug-in input/output module options, and on-board serial ports for auxiliary devices.

- 4 Line, 20 Character per line LCD display with backlight
- 8 Function keys with LED indicators on the keys
- 6 Additional Status LED's
- 4 Navigation keys for easy navigation between pages and data entry
- 3 on-board serial communication ports to communicate simultaneously with multiple auxiliary devices
- Plug-In Input/Output Cards
- Special control functions can be embedded in the unit
- Slide in legends for the function keys, status LED's and company logo for customization
- Real-time clock with battery backup
- Diagnostic pages
- Compact panel mount operator interface with NEMA 4x protection



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Technical Specifications:

Electrical: Input Voltage:10 - 30 VDC, High Voltage Protection Power Requirements.....250 mA max. at 12V, without option boards	Environmental: Operating Temperature.....-20/185°F (-30/85°C) Humidity..... 0-95 % RH (non condensing) Protection..... NEMA4x (IP66)
Serial Communication: Serial Port 1..... RS232 Serial Port 2..... RS232 Serial Port 3..... RS232/RS485 Jumper Selectable RS485 Port is isolated and ESD (Electro Static Discharge) protected. Multiple serial communication protocols such as Modbus, Allen Bradley DF1, various ASCII protocols available and can be used simultaneously.	Dimensions: Face Plate Width 7 1/8" Face Plate Height 5 1/8" Face Plate Thickness.....0.2" Cutout Width6.5" Cutout Height4.5" Required Depth1.50"- 3.2" (depending on the option boards)

Option Boards:

Up to 4 Analog Inputs, 8 Digital Inputs, 8 Relay Outputs and 1 Frequency Input can be freely mix-and-matched in an application.

Analog Input Card: Inputs.....4 per card Protection.....ESD protected Signal Levels.....0-5V, 0-10V, 4-20mA, jumper selectable Accuracy.....1%	Frequency Input Card: Input.....1 Max. Frequency.....5 kHz Input Type.....Open collector, switch, or magnetic pickup input Protection.....Optical isolation up to 1500Volts
Digital Input Card: Inputs.....4 per Card Input Type.....Sinking type input (requires dry contact or open collector) Protection.....Optical isolation up to 1500Volts Two cards can be stacked for a total of 8 D/I	Relay Output Card: Output:.....4 Relays per card Isolated Channels:.....2 common connections per card Contact Rating:.....3A - 250VDC Power Requirement:....170mA max.at 12VDC Two cards can be stacked for a total of 8 D/O
Data Acquisition Card: RAM.....128k (battery back-up) Flash ROM.....256k Serial Ports.....2 RS232, 1 RS485 (isolated)	

Entek Controls, Inc.

5132 Bolsa Avenue Suite 104 Huntington Beach, CA 92649

Tel: (714) 891 2266 Fax: (714) 891 3666

Web: www.entekcontrols.com Email: info@entekcontrols.com