

The Eaton logo, consisting of the word "EATON" in a bold, sans-serif font with a stylized dot over the letter "A".The Cutler-Hammer logo, consisting of the words "Cutler-Hammer" in a bold, sans-serif font.

PanelMate® ePro™ PS Classic Operator Interface Models 7685T-8C, 7600C

Product Focus

Use with PanelMate Power Pro
or ePro Canvas Configurations
OPC Connectivity
Ethernet & Serial Communications

Introduction

The Cutler-Hammer® PanelMate ePro Classic operator interface is the ideal solution for users currently using PanelMate Power Pro series products and see value in the new ePro PS hardware but are not quite ready to convert their configurations to ePro Canvas applications. Since the ePro Classic supports the PanelMate Power Pro and PanelMate ePro PS Runtime software, users can upgrade without having to purchase any additional hardware beyond the ePro PS Classic unit.

The ePro PS Classic models are based on the corresponding PanelMate ePro PS models with the addition of software and licenses that allow users to run a PanelMate Power Pro application and one of three extended features — Document Viewer, Headline Manager or Recipe Manager.

Eaton's ePro PS Classic operator interface is a high-performance, cost-effective solution that carries on the PanelMate tradition of performance in balance with ease of use. The PanelMate ePro PS Classic combines the flexibility of Microsoft's® Windows® XP Embedded operating system with the stability and reliability achieved through the solid-state hardware design and exclusive Protect Mode™ that provides protection for the operating system and software.

The ePro PS Classic family of products includes a display model with an 8-inch color TFT touchscreen display and a Blind Node (no display) model. The Blind Node provides a variety of mounting configuration options and the flexibility of connecting to different-sized external displays, including the Cutler-Hammer family of flat-panel touchscreen displays.

Performance and Flexibility

The PanelMate ePro PS Classic has the performance and flexibility of a PC based operator interface without the associated complexity of a PC on the plant floor. With integrated high-speed Ethernet, serial ports, USB ports, removable CompactFlash®, PCMCIA, and an optional PCI expansion adapter (Blind Node only), the ePro PS can be adapted for a wide variety of user requirements.

In addition, the ePro PS supports many third-party software packages including Visual Basic®, that can interface directly to the runtime application software. Support for wireless Ethernet and cell phone cards, modem cards, and a multitude of non-volatile memory and input devices make the ePro PS Classic the most flexible OI device on the market.

Communications and Convenience

The ePro PS Classic comes standard with over 80 OPC drivers for both Ethernet and serial connectivity to virtually any PLC platform or network, as well as a wide array of drives, motion controllers and databases. No additional fees or activation are required for connecting directly to the OPC server engine and drivers. Users just load the configuration and go. With PCMCIA and PCI availability, users have a wide selection of both proprietary and open network interfaces from DeviceNet™ and PROFIBUS® to Data Highway® Plus, ControlNet™ and Modbus® Plus.

Protect Mode

With the built-in Protect Mode feature, users can be confident that the ePro PS Classic will be secure from unexpected changes or corruption, and that the integrity of the system will remain intact. The exclusive Protect Mode locks out all unauthorized modifications to the

operating system in addition to protecting critical application programs and drivers. This means that users don't suffer from the common problems associated with industrial PCs.

Configuration Tools

Since the ePro PS Classic supports both the ePro PS and Power Pro Runtime software, users can develop applications using either the ePro Canvas development environment or the PanelMate Power Pro Configuration Editor.

When users are ready to convert to ePro PS Runtime, the ePro Canvas Professional software can be used to import their PanelMate Power Pro applications and convert them for use with the ePro PS Runtime. Once an application is converted, users can take advantage of the new tools available in the ePro Canvas software. As a result, users can easily move forward while keeping the familiar user interface that has made PanelMate the preferred operator interface worldwide.



Model 7685T-8C



Model 7600C

Rugged Design/Global Standards

The PanelMate ePro PS Classic carries UL®, cUL®, CSA® Class I Div 2, and CE mark certification, and it meets NEMA® 4, 4X, 12 and IP65 ratings when installed in a correspondingly rated enclosure. The ePro PS Classic operates from 24 Vdc power which is standard for global installations. An array of Cutler-Hammer 24 Vdc power supplies is available to accommodate installations requiring 120/240 Vac power.

Applications

Whether replacing hardwired pilot devices and pushbuttons, or providing machine control and even SCADA functions such as data archiving, recipe management and Internet browsing, the ePro PS Classic can fit from both a form and functional standpoint. In monitoring and diagnostic applications, as well as operator controls for critical start/stop, ramp/jog and set point adjustments, the ePro PS Classic offers a reliable and safe interface for a wide range of industrial applications:

- Discrete manufacturing machine diagnostics and controls.
- Oil platform monitoring and control in the petroleum industry.
- Central and remote water and wastewater control panels.
- Monitoring and control panels for local facilities/air handling equipment.
- Tire manufacturing, mixing and building processes.
- Industrial and commercial power house controls; building HVAC controls.
- Material handling and palletizing monitoring and control.
- Automotive press and machine parts controls.

Plus many more!

For over 20 years, Eaton's PanelMate products have offered users "Innovation with Migration." The PanelMate ePro PS Classic continues the tradition by offering a powerful and flexible operator interface and support of Power Pro applications.

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General Features & Capabilities

- Display 7685T-8C:
 - 8.4 inch (213 mm), color TFT display, 16 million colors
 - Resolution: VGA (640 x 480)
 - Brightness: 300 nits
 - Backlight: Field replaceable, 50,000 hours typical life
 - Auto dimming
- Blind Node 7600C:
 - Resolution: VGA (640 x 480) SVGA (800 x 600), XGA (1024 x 768), SXGA (1280 x 1024), UXGA (1600 x 1200)
 - Colors: 16 million colors (SXGA & UXGA – 65K colors)
- Operator entry:
 - Touchscreen interface with Resistive technology for gloved hand operation
 - Pop-up, on-screen alphanumeric keypad support
- Powerful OI capabilities:
 - Supports ePro Canvas controls and templates
 - Built-in two-touch control
 - Full math and logic expressions
- Communications and I/O capabilities:
 - One integrated Ethernet port — 10/100Base-T
 - Two serial ports: one RS-232, one RS-232/422/485 optically isolated
 - Four USB ports (two V1.1, two V2.0)
 - One CompactFlash memory card slot
 - Two PCMCIA Type II slots (or one Type III)
 - Support for optional PCI adapter (7600C only)
 - Built-in OPC Client/Server support

Note: There is no support for native PanelMate Power Pro drivers. Only OPC servers are supported for process communications.

Table 1. Model Specifications

Description	Model	
	7685T-8C	7600C
Voltage	24 Vdc, -15%/+20%	24 Vdc, -15%/+20%
Power Consumption	28 Watts	20 Watts
Heat Output	28 Watts (96 BTU/h)	20 Watts (68 BTU/h)
Current	1.3 Amperes	1.0 Amperes
Peak Inrush Current	3.0 Amperes	3.0 Amperes
Overall Dimensions (H x W x D)	7.63 x 10.51 x 3.90 Inches 193.8 x 267.0 x 99.1 mm	9.30 x 12.00 x 4.90 Inches ① 236.2 x 304.8 x 124.5 mm
Cutout Dimensions (H x W)	6.50 x 9.38 Inches 165.1 x 238.3 mm	Designed for cabinet mounting
Weight	7 lbs./3.2 kg	5 lbs./2.3 kg
Emissions Noise Immunity Agency Certifications	CISPR 22 Class A, Radiated and Conducted IEC 801-2, 3, 4, 6, 8/IEC 6100-4- 2, 3, 4, 5, 6, 8 CE Marked, UL/cUL and CSA Class 1, Div. 2, Groups A, B, C, D	

① Add 1.30 inches (33.0 mm) to depth for optional PCI adapter.

Table 2. Model 7685T-8C and 7600C Operating and Non-operating Specifications

Description	Operating	Non-operating
System Ambient Temperature	0° – 55°C (32° – 131°F) ②	-25° – 70°C (-13° – 158°F)
System Vibration	1G from 5 – 500 Hz	1G from 5 – 500 Hz
System Shock	30G	30G
Relative Humidity	20 – 95% Non-condensing	20 – 95% Non-condensing
Altitude (Above Sea Level)	10,000 ft. (3,048 m)	40,000 ft. (12,192 m)

② 0° – 50°C (32° – 122°F) with optional PCI adapter.

Table 3. Optional Accessories

Description	Model Number
PCI Adapter Module for 7600C	76PCI
Restore Kit for 7685T-8C	76MLPSCD
Restore Kit for 7600C	76MLPSCB

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