PANELMATE®
POWER PRO™ 3000
TECHNICAL SPECIFICATIONS

Total control — with just a touch. The PanelMate Power Pro 3000 gives you the ability to monitor, operate and troubleshoot PLC- or soft logic-based machines easily and cost-effectively by using the very latest in operator interface technology. Available with an ultrabright, 350-nit, 10.4" color TFT flat panel display, PanelMate Power Pro 3000 units come in your choice of two design options — traditional keypad with membrane TouchPanel™ and control buttons or direct touchscreen.

PanelMate Power Pro 3000 units are compatible with all major brands of PLCs and industrial communication networks such as DeviceNet,™ Allen-Bradley Data Highway Plus and Modicon Modbus Plus. PanelMate Power Pro 3000 units use intuitive Windows®-based software that makes configuring quick and easy with fill-in-the-blank templates, and tag name management tools. Advanced graphics capabilities provide high-detail, realistic representations of your machine, resulting in faster operator acceptance and utilization.

All of which means PanelMate Power Pro 3000 units give you one of the easiest to learn, fastest to use, and most comprehensive operator interface product lines available.

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Display and Electronics Specifications

Display
- Ultrabright, 350-nit,10.4" color TFT flat panel display, 256 colors with 8-state PowerBlink
- Resolution: 640 x 480 pixels (VGA)
- Field-replaceable backlight

Operator Entry

TouchPanel Models
- 5 x 3 cell TouchPanel for control selection
- 0 to 9, •, - , numeric entry keypad
- Four recessed membrane control buttons

Touchscreen Models
- Resistive technology for gloved hand operation
- Resolution: 256 x 256 cells
- On-screen, 5 x 3 cell control selection or direct selection
- Non-overlapping, pop-up, on-screen numeric keypad
- Four on-screen control buttons
- Glass standard—optional acrylic versions available

Hardware
Single-piece design for easy panel-mount installation and service
- Epoxy powder coat paint
- Impact-resistant protective window over display
- Stainless steel models available

External Connections
- Serial Ports: Two DB9 serial ports are standard, configurable for RS232, RS422 and RS485-2 communications, 110 to 19,200 baud, permitting:
    - PLC brand-specific protocol communication
    - Communication to serial printers
- DeviceNet Option: Direct connection to DeviceNet network
- Acceleratl/On™ Option: Direct connection to Allen-Bradley Data Highway™, Data Highway Plus™ or Remote I/O Link™
- Genius™ I/O Option: Direct connection to GE Fanuc Genius™ I/O network
- Modbus Plus Option: Direct connection to Modicon Modbus Plus network
- External Horn: Provides connection for available external alarm horn, 8 ohm output
- Fault Relay: Provides connection point for external fault annunciation
    - Type: Form C Contact
    - Rating: 2 Amps @ 28 Volts DC, 2 Amps @ 240 Volts AC

Other

Power Supply
- Voltage: 24 VDC (-15%/+20%)
- Consumption: 26 Watts
(30 Watts with optional communication interface module)

Equipment Heat Output
- 89 BTU/Hr
(102 BTU/Hr with optional communication interface module)

Certifications
- UL, cUL, CSA Listed
- UL/CSA Hazardous locations, Class I, Div 2, Groups A, B, C, D
- CE Mark

Environment

Enclosure Class
- Approved for use in Type 4, 4X and 12 installations when properly mounted in a correspondingly rated enclosure

System Ambient Temperature
- Operating:
    0° C to 50° C
- Non-operating:
    -20° C to 70° C

System Vibration
- Operating:
    1.0G at 10 Hz to 500 Hz
- Non-operating:
    1.0G at 10 Hz to 500 Hz

Relative Humidity
- Operating:
    20% to 90% non-condensing
- Non-operating:
    20% to 95% non-condensing

System Shock
- Operating: 30G
- Non-operating: 30G

Altitude
- Operating: Sea level to 10,000 ft
- Non-operating: Sea level to 40,000 ft

Emissions
- CISPR 22 Class A-radiated and conducted

Immunity
- IEC 61000-4-2,3,4,5,6,8

Dimensions/Weight

TouchPanel

	inches	(mm)
• WIDTH:	13.50	(342.90)
• HEIGHT:	13.00	(330.20)
• DEPTH:	3.00*	(76.2)
• WEIGHT:	12 LBS*	(5.5 KG)

Cutout Dimensions

	inches	(mm)
• WIDTH:	12.50	(317.50)
• HEIGHT:	12.00	(304.80)

Touchscreen

	inches	(mm)
• WIDTH:	12.30	(312.42)
• HEIGHT:	11.97	(304.04)
• DEPTH:	2.90*	(73.66)
• WEIGHT:	10 LBS*	(4.6 KG)

Cutout Dimensions

	inches	(mm)
• WIDTH:	11.40	(289.56)
• HEIGHT:	11.01	(279.65)

*Add 1 inch (25.4 mm) to depth and 1 lb to weight if using an optional communication interface module
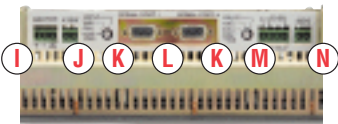
A . . . . . IMPACT-RESISTANT PROTECTIVE WINDOW

B . . . MEMBRANE CONTROL BUTTONS

C . . . . . . 10.4" COLOR TFT

D . . . EPOXY POWDER COAT

E . . NUMERIC ENTRY KEYPAD

F . . 5 X 3 CELL TOUCHPANEL

G . . . . . . 10.4" COLOR TFT, WITH TOUCHSCREEN

H . . . . . . POP-UP NUMERIC ENTRYKEYPAD

I . . . . POWER INPUT

J . . . . . KEYSWITCH INPUT

K . SELECTABLE SERIAL PORT TERMINATION SWITCH

L . . . . SERIAL PORTS

M . . . . FAULT RELAY

N . . . . . . EXTERNAL HORN CONNECTION

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Pittsburgh, Pennsylvania U.S.A.

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