**A·B** QUALITY  *Allen-Bradley*

# PanelView Component Specifications

Catalog Numbers 2711C-F2M, 2711C-K2M, 2711C-T3M, 2711C-K3M, 2711C-T6M, 2711C-T6C, 2711C-T6T, 2711C-T10C

## PanelView Component Family

This component level operator interface provides a control and visualization solution for low-level applications using serial or Ethernet communication. This device can connect directly to the PowerFlex 4 drives. Preferred controllers include the Allen-Bradley Micrologix, SLC, and Micro800 families.

The integrated mounting clamps of the PanelView Component provides easier panel installation and maintenance.

These 2-inch to 10-inch displays have built-in programming software that is accessed from a web browser over a USB or Ethernet connection. This means you can design your application and adjust terminal settings while viewing the results directly on the connected terminal.

Secured programming access, unicode language switching, alarm messages and history, and recipe operations are other key features.

**A·B** *Allen-Bradley* • *Rockwell Software*    **Rockwell Automation**

# Environmental Specifications

**Table 1 - Environmental Specifications - PanelView Component Terminals**

| Attribute | 2711C-F2M, 2711C-K2M, 2711C-T3M, 2711C-K3M, 2711C-T6M, 2711C-T6C, 2711C-T6T, 2711C-T10C |
|---|---|
| Temperature, operating | 0…50 °C (32…122 °F) |
| Temperature, storage | -25…70 °C (-13…158 °F) |
| Heat Dissipation | C200/C300: 16 BTU/hr<br>C600: 32 BTU/hr<br>C1000: 58 BTU/hr |
| Relative humidity | 0...95% noncondensing |
| Vibration | 2 g at 10…500 Hz |
| Altitude, operating | 2000 m (6561 ft) |
| Shock, operating | 15 g at 11 ms |
| Shock, nonoperating | 30 g at 11 ms |
| Enclosure ratings | NEMA/UL Type 12, 13, 4X (indoor use only), IEC IP54, IP65<br>2711C-T6M, 2711C-T6C Series B only: NEMA/UL Type 12, 13,<br>and IEC IP54 |

# Certifications

**Table 2 - Certifications - PanelView Component Terminals**

| Certification[1] | 2711C-F2M, 2711C-K2M, 2711C-T3M, 2711C-K3M, 2711C-T6M, 2711C-T6C, 2711C-T6T, 2711C-T10C |
|---|---|
| c-UL-us | UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E113724 |
| CE | European Union 89/336/EEC EMC Directive, compliant with:<br>• EN 61000-6-2; Industrial Immunity<br>• EN 61000-6-4; Industrial Emissions<br>• EN 61131-2; Programmable Controllers |
| C-Tick | Australian Radiocommunications Act, compliant with:<br>AS/NZS CISPR 11; Industrial Emissions |

(1)  When marked. See the Product Certification link at http://www.ab.com for Declarations of Conformity, Certificates, and other certification details.

# Technical Specifications

The tables in this section provide technical specifications for the PanelView Component terminals.

## PanelView Component C200 and C300

**Table 3 - Technical Specifications - PanelView Component C200 and C300 Terminals**

| Attribute       Terminal Type | C200 2711C-F2M | C200 2711C-K2M | C300 2711C-T3M | C300 2711C-K3M |
|---|---|---|---|---|
| Display type | Monochrome transflective STN passive matrix | | Monochrome transflective FSTN passive matrix | |
| Display size | 2 in. | | 3 in. | |
| Display area (WxH) | 49 x 14 mm (1.93 x 0.55 in.) | | 67 x 33 mm (2.64 x 1.30 in.) | |
| Resolution | 122 x 32 | | 128 x 64 | |
| Backlight | 50,000 hours life, min.; not replaceable | | 50,000 hours life, min.; not replaceable | |
| | Yellow/Green LED indicator | | White LED indicator | |
| Operator input | 4 function keys (F1…F4) Up, down, left, right, Enter keys | 10 function keys (F1…F10) Numeric keypad 0…9 Up, down, left, right, decimal, +/-, Enter keys | Analog touch | 10 function keys (F1…F10) Numeric keypad 0…9 Up, down, left, right, decimal, +/-, Enter keys |
| Real-time Clock | No battery backup | | | |
| Battery | 5 year min. at 25 °C (77 °F) | | | |
| Programming port | USB device port | | | |
| Communication ports | RS-232 (DH-485), RS-232 (DF1), RS485 Multi-vendor communication available for Modbus, Modbus/TCP, Siemens MPI devices | | | |
| Memory Card | USB flash drive | | | |
| Software | Web-enabled software resident in terminal accessed through web browser Browser support: Firefox 3.0, Internet Explorer 7 Emulator available | | | |
| Preferred controller | MicroLogix, SLC, and Micro800 controllers | | | |
| Input voltage, DC | 18…30V DC (24V DC nominal) | | | |
| Power consumption, DC | 5 W max (0.21 A at 24V DC) | | | |
| Weight approx. | 0.19 g (0.40 lb) | 0.30 kg (0.65 lb) | 0.20 kg (0.43 lb) | 0.30 kg (0.65 lb) |
| Dimensions (HxWxD), approx. | 80 x 116 x 54 mm 3.15 x 4.54 x 2.13 in. | 119 x 139 x 55 mm 4.69 x 5.47 x 2.15 in. | 80 x 116 x 57 mm 3.15 x 4.54 x 2.23 in. | 119 x 139 x 55 mm 4.69 x 5.47 x 2.15 in. |
| Cutout Dimensions (HxWxD) | 65 x 100 mm 2.56 x 3.94 in. | 100 x 120 mm 3.94 x 4.72 in. | 65 x 100 mm 2.56 x 3.94 in. | 100 x 120 mm 3.94 x 4.72 in. |

# PanelView Component C600 and C1000

**Table 4 - Technical Specifications - PanelView Component C600 and C1000 Terminals**
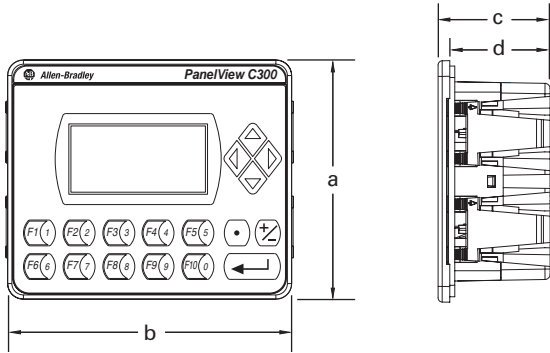
| Terminal Type<br>Attribute | C600<br>2711C-T6T | C600<br>2711C-T6C | C600<br>2711C-T6M | C1000<br>2711C-T10C |
|---|---|---|---|---|
| Display type | Color transmissive TFT active matrix LCD | Color transmissive CSTN passive matrix LCD | Monochrome transmissive FSTN passive matrix | Color transmissive TFT active matrix LCD |
| Display size | 5.7 in. | | | 10.4 in. |
| Display area (WxH) | 115 x 86 mm (4.53 x 3.39 in.) | | | 211 x 158 mm (8.31 x 6.22 in.) |
| Resolution | 320 x 240 | | | 640 x 480 |
| Backlight | 40,000 hours life, min.; not replaceable | 50,000 hours life, min.; not replaceable | | |
| | White LED backlight | CCFL | | |
| Operator input | Analog touch<br>Actuation rating: 1,000,000 presses | | | |
| Real-time clock | Battery backup | | | |
| Battery life | 5 year min. at 25 °C (77 °F) | | | |
| Programming port | USB device port or Ethernet port | | | |
| Communication ports | RS-232 (DH-485), RS-232 (DF1), RS485, Ethernet<br>Multi-vendor communication available for Modbus, Modbus/TCP, Siemens MPI devices | | | |
| Memory Card | USB flash drive<br>Secure digital (SD) card: Cat. no. 2711C-RCSD, USB to SD adapter with secure digital (SD) | | | |
| Software | Web-enabled software resident in terminal accessed through web browser<br>Browser support: Firefox 3.0, Internet Explorer 7<br>Emulator available | | | |
| Preferred controller | MicroLogix, SLC, and Micro800 controllers | | | |
| Input voltage, DC | 18…30V DC (24V DC nominal) | | | |
| Power consumption, DC | 10 W max (0.42 A at 24V DC) | | | 18 W max (0.75 A at 24V DC) |
| Weight approx. | 0.68 g (1.48 lb) | | | 1.57 kg (3.41 lb) |
| Dimensions (HxWxD), approx. | 154 x 209 x 57 mm<br>6.0 x 8.23 x 2.25 in. | | | 250 x 308 x 54 mm<br>9.84 x 12.13 x 2.13 in. |
| Cutout Dimensions (HxWxD) | 136 x 190 mm<br>5.35 x 7.48 in. | | | 232 x 290 mm<br>9.13 x 11.42 in. |

# Dimensions

Dimensions are provided for the PanelView Component terminals.

**Figure 1 - PanelView Component C200 and C300 Terminals**

PanelView Component C200 and C300 Keypad

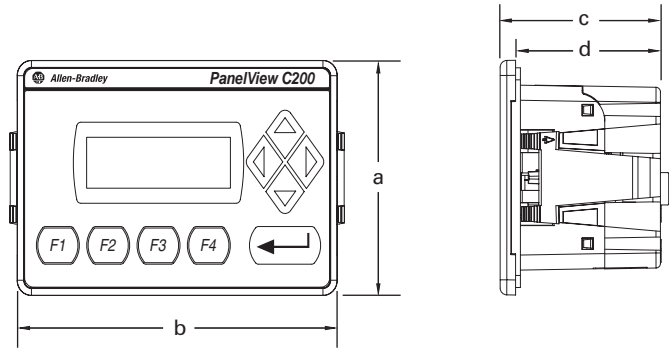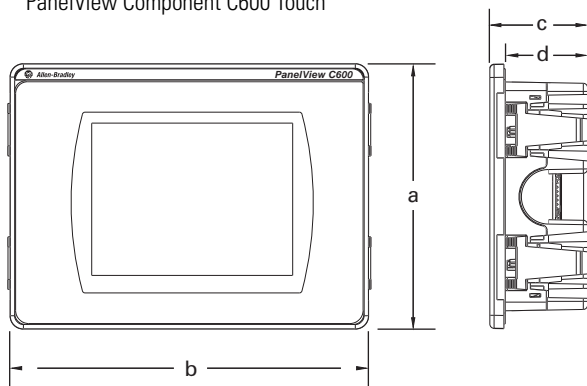PanelView Component C200 Function Key and C300 Touch

**Table 5 - Dimensions - PanelView Component C200 and C300**

| PanelView Component | Height, Approx. | Width, Approx. | Depth Overall, Approx. | Mounted Depth, Approx. | Cutout Height, Approx. | Cutout Width, Approx. |
|---|---|---|---|---|---|---|
| | a | b | c | d | mm (in.) | mm (in.) |
| C200 and C300 Keypad | 119 mm (4.69 in.) | 139 mm (5.47 in.) | 55 mm (2.15 in.) | 49 mm (1.93 in.) | 99.0 ± 1.0 (3.90 ± 0.04) | 119.0 ± 1.0 (4.69 ±0.04) |
| C200 Function Key | 80 mm (3.15 in.) | 116 mm (4.57 in.) | 54 mm (2.13 in.) | 49 mm (1.93 in.) | 64.0 ± 1.0 (2.52 ± 0.04) | 99.0 ± 1.0 (3.90 ±0.04) |
| C300 Touch | | | 57 mm (2.23 in.) | | 64.0 ± 1.0 (2.52 ± 0.04) | 99.0 ± 1.0 (3.90 ±0.04) |

**Figure 2 - PanelView Component C600 Touch Terminals**

PanelView Component C600 Touch
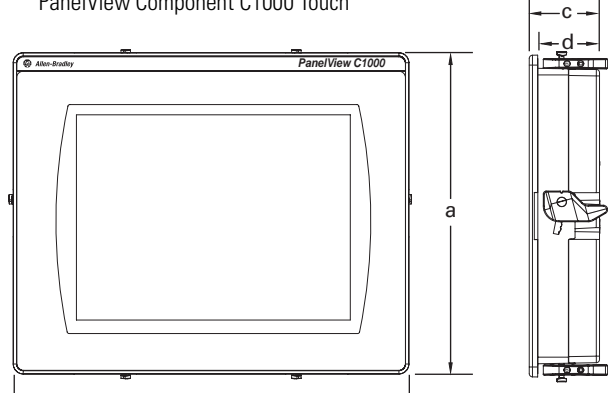
PanelView Component C1000 Touch

**Table 6 - Dimensions - PanelView Component C600 and C1000**

| PanelView Component | Height, Approx. | Width, Approx. | Depth Overall, Approx. | Mounted Depth, Approx. | Cutout Height, Approx. | Cutout Width, Approx. |
|---|---|---|---|---|---|---|
| | a | b | c | d | mm (in.) | mm (in.) |
| C600 Touch | 154 mm (6.0 in.) | 209 mm (8.23 in.) | 57 mm (2.25 in.) | 49 mm (1.93 in.) | 135.0 ± 1.0 (5.31 ± 0.04) | 189.0 ± 1.0 (7.44 ±0.04) |
| C1000 Touch | 250 mm (9.84 in.) | 308 mm (12.13 in.) | 54 mm (2.13 in.) | 49 mm (1.93 in.) | 231.0 ± 1.0 (9.09 ± 0.04) | 289.0 ± 1.0 (11.38 ±0.04) |

# Accessories

Tables 7…10 list the accessories for the PanelView Component terminals.

**Table 7 - Secure Digital Card**

| Cat. No. | Description |
|---|---|
| 2711C-RCSD | USB to SD adapter with secure digital card (SD) |

**Table 8 - Antiglare Overlays**

| Cat. No.[1] | PanelView Component Model | Input Type | | |
|---|---|---|---|---|
| | | Function Key | Numeric Keypad | Touch |
| 2711C-RG2F | C200 | • | | |
| | C300 | | | • |
| 2711C-RG2K | C200 | | • | |
| | C300 | | • | |
| 2711C-RG6T | C600 | | | • |
| 2711C-RG10T | C1000 | | | • |

(1) Three overlays are shipped with each catalog number.

**Table 9 - Power Terminal Blocks**

| Cat. No. | Description | Quantity |
|---|---|---|
| 2711C-RJ422 | RS422/485 connector with resistor | 10 |
| 2711-TBDC | DC power terminal block | 10 |

**Table 10 - Power Supply**

| Cat. No. | Description | Quantity |
|---|---|---|
| 2711P-RSACDIN | DIN-rail mount AC-to-DC power supply, 85…265V AC, 47…63 Hz | 1 |

# Software

The PanelView Component stands apart from other HMI devices with its on-terminal programming software. Eliminating the need to install software on a personal computer reduces both start-up and servicing time. Just connect your computer to the PanelView Component through a USB cable or Ethernet, then launch the software through your web browser. Both Microsoft Internet Explorer and Mozilla Firefox are supported. A dashboard provides a single point of entry for accessing all terminal and design operations.

Take advantage of these features while connected to the terminal:

- Launch the design environment where navigation tabs guide you through application development.
- View the results of your design efforts directly on the terminal without having to download the application first.
- Modify terminal display and communication settings, view system information, and enable login security.
- Transfer files between PanelView Component storage and a USB flash drive, SD card, or computer; and delete files from terminal storage.
- Change the start-up application or language the terminal uses for configuration screens and diagnostic messages.

For programming without a PanelView Component, an emulator for Windows XP and Vista systems is also available. The emulator and browser must be on the same computer.

**Table 11 - Supported Operating Systems and Browsers**

| Operating System | Browser | Platform Supported |
|---|---|---|
| Windows Vista | Internet Explorer 7 Firefox 3.0 | Terminal and emulator |
| Windows XP SP2 | Internet Explorer 7 Firefox 3.0 | Terminal and emulator |
| Windows 2000 SP4[1] | Internet Explorer 7 Firefox 3.0 | C600 and C1000 terminal using Ethernet |

(1) Using Ethernet network connection only.

# Cables

The table summarizes cables used by the PanelView Component terminals.

**Table 12 - Cables and Adapters**

| Cat. No. | Description | Connectors | Length |
|---|---|---|---|
| 2711C-CBL-UU02 | USB host to USB device programming cable. | | 2 m (6.5 ft) |
| 2711C-CBL-AB03 | RS-485 (5-pin) to RJ45 operating/programming cable for connecting PanelView Component terminals to SLC 5/01, 5/02, 5/03 controllers. | RS-485 (5-pin) to RJ45 | |
| 1747-CP3 | Operating/programming cable for connecting PanelView Component terminals to SLC and MicroLogix controllers. | 9-pin D-shell to 9-pin D-shell null modem cable | 3 m (10 ft) |
| 1761-CBL-PM02 | RS-232 operating/programming cable for connecting PanelView Component terminals to MicroLogix controllers. | 9-pin D-shell to 8-pin mini DIN | 2 m (6.5 ft) |
| 2711-CBL-PM05 | RS-232 operating/programming cable for connecting PanelView Component terminals to MicroLogix controllers. | 9-pin D-shell to 8-pin mini DIN | 5 m (16.4 ft) |
| 2711-CBL-PM10 | RS-232 operating/programming cable for connecting PanelView Component terminals to MicroLogix controllers. | 9-pin D-shell to 8-pin mini DIN | 10 m (32.7 ft) |
| 2711P-CBL-EX04 | Ethernet CAT5 crossover cable for use with PanelView Component C600 and C1000 terminals. | RJ45 to RJ45 | 4.3 m (14 ft) |
| 1761-NET-AIC | AIC+ advanced interface converter, RS-232/RS-485. | — | — |

## Runtime Communication Cables

Tables 13…16 provide a summary of connections between PanelView Component terminals and controllers or interface modules for runtime communication.

**Table 13 - Runtime Communication Cables: PanelView Component to SLC Controllers**

| Protocol | PanelView Component Comm Port | SLC 500, 5/01, 5/02 CH1 (RJ45) (DH-485) | SLC 5/03, 5/04, 5/05 CH0 (9-pin RS-232) (DF1 or DH-485) | SLC 5/03 CH1 (RJ45) (DH-485) | SLC 5/04 CH1 (DH+) | SLC 5/05 CH1 (ENET) |
|---|---|---|---|---|---|---|
| DF1 | RS-232 (DF1) port (9-pin) | — | 1747-CP3 (3 m/10 ft) | — | — | — |
| DH-485 | RS-232 (DH-485) port (9-pin) | Use AIC+ module (1761-NET-AIC) to connect to Port 1 or 2 | 1747-CP3 (3 m/10 ft) | Use AIC+ module (1761-NET-AIC) to connect to Port 1 or 2 | — | — |
| | RS-485 (DH-485) port (5-pin) | 2711C-CBL-AB03[1] | — | 2711C-CBL-AB03[1] | — | — |
| EtherNet/IP | EtherNet/IP port | — | Use 1761-NET-ENI module with Ethernet cable | — | — | 1585J-M type cable or 2711P- CBL-EX04 (4 m/14 ft) [2] |

(1)  The AIC+ module is recommended for isolation purposes when the terminal and controller are not on the same power supply.

(2)  For a direct connection between the terminal and controller, use the 2711P-CBL-EX04 crossover cable.

**Table 14 - Runtime Communication Cables: PanelView Component to MicroLogix Controllers**

| Protocol | PanelView Component Comm Port | MicroLogix 1400, 1500LRP CH1/CH2 (9-pin RS-232) (DF1 or DH-485) | MicroLogix 1000, 1100, 1200, 1400, 1500LSP CH0 (8-pin Mini DIN) (DF1 or DH-485) | MicroLogix 1100, 1400 Ethernet |
|---|---|---|---|---|
| DF1 | RS-232 (DF1) port (9-pin) | 1747-CP3 (3 m/10 ft) | 1761-CBL-PM02 (2 m/6.5 ft) 2711-CBL-PM05 (5 m/16 ft) 2711-CBL-PM10 (10 m/12 ft) [1] | — |
| DH-485 | RS-232 (DH-485) port (9-pin) | 1747-CP3 (3 m/10 ft) | 1761-CBL-PM02 (2 m/6.5 ft) 2711-CBL-PM05 (5 m/16 ft) 2711-CBL-PM10 (10 m/12 ft) [1] | — |
| EtherNet/IP | EtherNet/IP port | Use 1761-NET-ENI module with Ethernet cable | | 1585J-M type cable or 2711P- CBL-EX04 (4 m/14 ft) [2] |

(1) The AIC+ module is recommended for isolation purposes when the terminal and controller are not on same power supply.
(2) For a direct connection between the terminal and controller, use the 2711P-CBL-EX04 crossover cable.

**Table 15 - Runtime Communication Cables: PanelView Component to CompactLogix Controllers**

| Protocol | PanelView Component Comm Port | CompactLogix CH0 (9-pin RS-232) (DF1 or DH-485) |
|---|---|---|
| DF1 | RS-232 (DF1) port (9-pin) | 2711-NC13 (5 m/16 ft) 2711-NC14 (10 m/32 ft) |
| DH-485 | RS-232 (DH-485) port (9-pin) | 2711-NC13 (5 m/16 ft) 2711-NC14 (10 m/32 ft) |
| EtherNet/IP | EtherNet/IP port | 1585J-M type cable or 2711P- CBL-EX04 (4 m/14 ft) [1] |

(1) For a direct connection between the terminal and controller, use the 2711P-CBL-EX04 crossover cable.

**Table 16 - Runtime Communication Cables: PanelView Plus to Interface Modules**

| Protocol | PanelView Plus Comm Port | 1761-NET-AIC Port 1 (9-pin) | 1761-NET-AIC Port 2 (8-pin Mini DIN() | 1761-NET-AIC Port 3 (DH-485) |
|---|---|---|---|---|
| DF1 | RS-232 port (9-pin) | 1747-CP3 (3 m/10 ft) | 1761-CBL-PM02 (2 m/6.5 ft) 2711-CBL-PM05 (5 m/16 ft) 2711-CBL-PM10 (10 m/12 ft) | — |
| DH-485 | RS-232 port (9-pin) | 1747-CP3 (3 m/10 ft) | 1761-CBL-PM02 (2 m/6.5 ft) 2711-CBL-PM05 (5 m/16 ft) 2711-CBL-PM10 (10 m/12 ft) | — |

## Additional Resources

These documents contain additional information concerning related Rockwell Automation products.

**Table 17 - Additional Resources**

| Resource | Description |
|---|---|
| PanelView Component Installation Instructions, publication 2711C-IN001 | Provides instructions for installing a PanelView Component terminal. |
| PanelView Component User Manual, publication 2711C-UM001 | Provides information on how to configure and operate the PanelView Component terminal, including troubleshooting information. |
| PanelView Component Quick Start, publication 2711C-QS001 | Provides instructions on setting up a sample application on a PanelView Component terminal. |
| Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1 | Provides general guidelines for installing a Rockwell Automation industrial system. |
| Product Certifications website, http://www.ab.com | Provides declarations of conformity, certificates, and other certification details. |

You can view or download publications at http://rockwellautomation.com/literature. To order paper copies of technical documentation, contact your local Rockwell Automation distributor or sales representative.

**Notes:**

# Important User Information

Solid-state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid State Controls (publication SGI-1.1 available from your local Rockwell Automation sales office or online at http://www.rockwellautomation.com/literature/) describes some important differences between solid-state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid-state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

Reproduction of the contents of this manual, in whole or in part, without written permission of Rockwell Automation, Inc., is prohibited.

# Documentation Feedback

Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete this form, publication RA-DU002, available at http://www.rockwellautomation.com/literature/.

Rockwell Otomasyon Ticaret A.Ş., Kar Plaza İş Merkezi E Blok Kat:6 34752 İçerenköy, İstanbul, Tel: +90 (216) 5698400

**www.rockwellautomation.com**

**Power, Control and Information Solutions Headquarters**

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846