



**Allen-Bradley**

**PowerFlex<sup>®</sup>**  
Communications

## **BACnet MS/TP Adapter**

**20-COMM-B  
FRN 1.xxx**

**User Manual**

**Rockwell  
Automation**

## 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.

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Throughout this manual, when necessary we use notes to make you aware of safety considerations.



**WARNING:** Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.

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**Important:** Identifies information that is critical for successful application and understanding of the product.

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**ATTENTION:** Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid the hazard, and recognize the consequences.

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**Shock Hazard** labels may be located on or inside the equipment (e.g., drive or motor) to alert people that dangerous voltage may be present.

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**Burn Hazard** labels may be located on or inside the equipment (e.g., drive or motor) to alert people that surfaces may be at dangerous temperatures.

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BACnet is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

## Summary of Changes

The information below summarizes the changes made to this manual since its last release (May 2006):

Description of Changes	Page(s)
In the "Quick Start" section: <ul style="list-style-type: none"><li>• In Step 4, removed connecting the adapter to the network.</li><li>• In Step 5, added two new sub-steps (B and C).</li><li>• Added a new Step 6 "Connect the adapter to the network."</li><li>• Incremented old Steps 6 and 7 to Steps 7 to 8.</li></ul>	<a href="#">1-6</a>
Reorganized Chapter 2: <ul style="list-style-type: none"><li>• Moved the "Connecting the Adapter to the Drive" section after the "Commissioning the Adapter" section.</li><li>• Moved the "Applying Power" section after the "Connecting the Adapter to the Drive" section.</li><li>• In the "Applying Power" section, added three new subsections:<ul style="list-style-type: none"><li>– "Start-Up Status Indications"</li><li>– "Verifying/Setting Key Adapter Parameters"</li><li>– "Configuring/Verifying Key Drive Parameters."</li></ul></li><li>• Moved the "Connecting the Drive/Adapter to the Network" section to the end of the chapter.</li></ul>	<a href="#">Chapter 2</a>
In Chapter 3, moved the "Setting the Device Instance Number" section after the "Using the PowerFlex 7-Class HIM" section. Included additional information to the "Setting the Device Instance Number" section.	<a href="#">3-3</a>
Added new Appendix D "Routing Capability for Networked Drives."	<a href="#">D-1</a>

The information below summarizes the changes made to this manual since its last release (April 2006):

Description of Changes	Page(s)
In the Features section — first bullet, removed text "... and can be used with the kit's optional I/O board." Also, added an Important statement regarding this information.	1-2
In the Viewing the Adapter Configuration table, added a third bullet in the Parameter 07 - [Baud Rate Act] row.	3-8
For Parameter 05 - [Fit Cfg Ref], corrected its detail information from being a bit parameter to a numeric parameter.	B-2