Single Stage Compressor Controller
Full Featured Anti-Surge Control in a Cost-Effective Package

Features and Benefits
An easy-to-install, pre-programmed package, the Rockwell Automation Single Stage Compressor Controller brings advanced technology and greater functionality to compressor anti-surge and capacity control.

• Advanced troubleshooting and diagnostics allows more control and can increase uptime
• Color PanelView HMI simplifies operator interface
• Simple menu-driven configuration
• Allen-Bradley platform is easily integrated into a plantwide network
• Anti-Surge and Capacity Control integrated in a single economical solution

The Rockwell Automation® Single Stage Compressor Controller is an economical compressor anti-surge controller providing advanced control algorithms allowing for safe and energy efficient operation across the compressors operating range. Rockwell Automation compressor control algorithms compensate for variations in gas composition, temperatures and pressures while patented incipient surge detection helps protect the compressor by predicting the onset of surge before it occurs. The Single Stage Compressor Controller has standard compressor capacity and load control capabilities, accommodating variable speed, inlet guide vanes, or gas throttling.

Easily integrated into a plantwide network, the Single Stage Compressor Controller uses the Allen-Bradley® CompactLogix™ control platform, supporting an open architecture with a multitasking, multiprocessing operating system. The pre-assembled, ready-to-install cabinet includes power supplies and terminations, and offers standard Ethernet and Serial Modbus communications. A full color Allen-Bradley PanelView™ Plus Human-Machine Interface (HMI) simplifies and enhances operator interface and provides valuable insight and control.

Available locally and supported globally, the Single Stage Compressor Controller brings advanced compressor control to your operation.
Greater Visibility

The Single Stage Compressor Controller takes visualization to the next level with a full color PanelView HMI, along with alarm management, multiple operating modes and capacity controls. Standard Ethernet or serial Modbus communications allow you to view critical data remotely. Dynamic compressor maps detail compressor operation, while process overview diagrams adjust to configuration choices.

Easy to Operate and Troubleshoot

The integrated PanelView includes detailed alarm management, trending and comprehensive diagnostics designed to streamline compressor controls such as:

- Integrated surge test and capture
- Integrated fallback strategies
- Manual or automatic load on start-up
- Available patented incipient surge detection

Replacing arcane error codes with descriptive messages, you’ll be able to easily locate and correct faults to help minimize downtime and increase productivity.

Easy to Install and Configure

The Single Stage Compressor Controller is easy to configure directly on the HMI screen. The configuration menus simplify data entry and allow upload and download from the HMI for data back up and restore. Easy-to-use interlocks and permissives and multiple levels of password protection help provide enhanced security.

Product Specifications

<table>
<thead>
<tr>
<th>INPUTS</th>
<th>OUTPUTS</th>
<th>COMMUNICATIONS</th>
<th>PANEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog Inputs (8), 4-20 mA</td>
<td>Analog Outputs (2), 4-20 mA</td>
<td>Ethernet (1)</td>
<td></td>
</tr>
<tr>
<td>Discreet Inputs (12), 24VDC</td>
<td>Discreet Outputs (6), 24VDC</td>
<td>Serial Modbus (1)</td>
<td></td>
</tr>
</tbody>
</table>

- **PANEL**
  - Weight: 68lbs / 31 kg
  - Dimensions: 610(H) x 508(W) x 203(D) mm
  - 24(H) x 20(W) x 8(D) in
  - Enclosure NEMA 12
  - *Optional NEMA 4/4X
  - Optional coolers or purge kits available

- **POWER CONSUMPTION**
  - 2.5 amps @ 24VDC
  - 0.6 amps @120 VAC

- **ENVIRONMENTAL**
  - Operating Temp 0-60˚ C (32-140˚ F)
  - Relative Humidity 5-95% non-condensing

- **STANDARD EQUIPMENT**
  - PanelView Plus 600
  - NEMA 12

- **OPTIONAL UPGRADES**
  - PanelView Plus 1000
  - NEMA 4/4X

---

Allen-Bradley, CompactLogix™ and PanelView™ are trademarks of Rockwell Automation, Inc. Trademarks not belonging to Rockwell Automation are property of their respective companies.

www.rockwellautomation.com

---

Power, Control and Information Solutions Headquarters

- Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
- Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Klerebaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0649
- Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Publication 1711-PP002A-EN-P – September 2011

Copyright © 2011 Rockwell Automation, Inc. All Rights Reserved. Printed in USA.