

Micro850/870[®]

EXPANSION I/O

*HIGHEST DENSITY &
BEST PRICE PER POINT!*



Catalog numbers:

2085sc-IF8U, 2085sc-OF8, 2085sc-IF16V, 2085sc-IF16C,
2085-IF4XOF4-SC



“

Fully licensed Rockwell Automation technology; Rockwell TechConnect phone support included with your purchase.

”

About Us



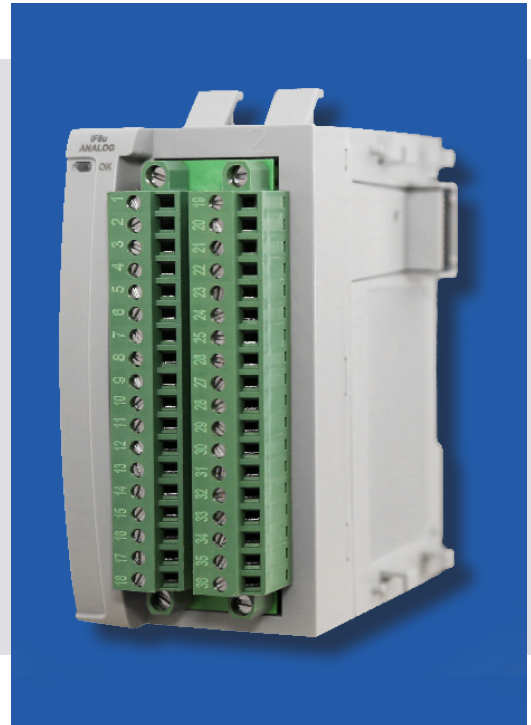
Spectrum Controls is the first company to build licensed, core-technology I/O modules for the Rockwell Automation product line. Our innovative designs incorporate state-of-the-art features with dependable performance. In addition to being a Rockwell Automation Global Encompass Partner, technical support is offered for every I/O module through the Rockwell TechConnect Support program at no additional cost to the customer.

As a leader in I/O for the industrial controls marketplace, our market-driven I/O modules provide a cost-effective solution to complex applications. Universal analog, high-density, analog+HART, and other versatile configuration options are just a few of the advantages of using I/O from Spectrum Controls.

8-Channel Universal Analog Input

2085sc-IF8U

- Minimize your cost per I/O point with our affordable universal analog module.
- Flexible universal analog module with best-in-class performance.
- Save rack space for future applications.
- Simplify your installation, and lower your total system costs by standardizing on our price competitive universal I/O.



Key Specifications

- Supports up to 8 voltage, current, thermocouple, or RTD/resistance inputs.
- Differential inputs provide low-level, channel-to-channel isolation.
- Configurable open circuit detection.

Specification	Description
Number of Inputs	8 Differential Inputs
Input ranges	Current: 0 - 20 mA, 4 - 20 mA
	Voltage: ± 50 mV, ± 100 mV, 0 - 5 V, 0 - 10 V, ± 10 V
	RTD: 100 Ω , 200 Ω , 500 Ω , and 1000 Ω Pt385 & Pt3916, 120 Ω Ni618 & Ni672, 10 Ω Cu 426, 604 Ω NiFe 518
	Resistance: 0-150 Ω , 0-500 Ω , 0-1000 Ω , 0-3000 Ω
	Thermocouple: Type J, N, T, K, E, S, R, C, B
Resolution	16-bit
Input filters	4 Hz, 17 Hz, 60 Hz, 470 Hz
Update Rate	51 ms at 60 Hz per channel
Power Consumption	100 mA at 5 V, 14 mA at 24 V
Operating Temp. Range	-20 $^{\circ}$ C to +65 $^{\circ}$ C

8-Channel High-Density Analog Output

2085sc-OF8

- Minimize your cost per I/O point with our affordable output analog module.
- Save money with a single high-density analog module, instead of multiple low-density I/O modules.
- Channel selectable voltage and current output ranges.
- Lower your total system costs by standardizing on our price competitive high-density I/O.



Key Specifications

- The highest density analog output available for Micro850 controllers.
- Configurable open circuit detection.
- Supports process alarms.

Specification	Description		
Number of Inputs	8 Outputs		
Output Types	<table border="1"> <tr> <td>0 mA - 20 mA, 4 mA - 20 mA</td> </tr> <tr> <td>0 V to +5 V, 0 V to +10 V, ± 10 V</td> </tr> </table>	0 mA - 20 mA, 4 mA - 20 mA	0 V to +5 V, 0 V to +10 V, ± 10 V
0 mA - 20 mA, 4 mA - 20 mA			
0 V to +5 V, 0 V to +10 V, ± 10 V			
Resolution	16-bit		
Output Load	50 to 500 Ohm		
Output Impedance	>1 Megaohm		
Power Consumption	110 mA at 5V, 20 mA at 24V, 260 mA at 24 V Field Power		
Operating Temp. Range	-20 °C to +65 °C		

16-Channel High-Density Analog Input

2085sc-IF16V, 2085sc-IF16C

- Choose between a current or voltage version for high performance analog inputs with up to 16-bit resolution.
- Minimize your cost per I/O point with up to 16 single-ended voltage or current inputs.
- Best price per point value on Micro850® platform.
- Simplify your installation by standardizing on a common I/O.



Key Specifications

- The highest density analog input available for Micro850 controllers.
- Configurable open circuit detection.
- Supports process alarms.

Specification	Description		
Number of Inputs	16 Single-Ended Inputs		
Input Types	<table border="1"> <tr> <td>2085sc-IF16C: 0 mA - 20 mA, 4 mA - 20 mA</td> </tr> <tr> <td>2085sc-IF16V: 0 V to +5 V, 0 V to +10 V, ±10 V</td> </tr> </table>	2085sc-IF16C: 0 mA - 20 mA, 4 mA - 20 mA	2085sc-IF16V: 0 V to +5 V, 0 V to +10 V, ±10 V
2085sc-IF16C: 0 mA - 20 mA, 4 mA - 20 mA			
2085sc-IF16V: 0 V to +5 V, 0 V to +10 V, ±10 V			
Resolution	16-bit		
Input filters	4 Hz, 17 Hz, 60 Hz, 470 Hz		
Update Rate	50 ms at 60 Hz per channel		
Power Consumption	100 mA at 5 V, 20 mA at 24 V		
Operating Temp. Range	-20 °C to +65 °C		

4-Channel Combo Analog Input & Output

2085-IF4XOF4-SC

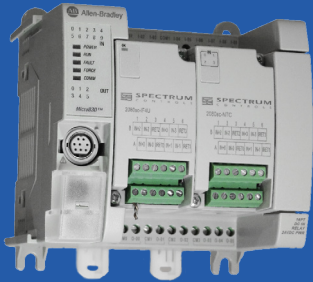
- Minimize your cost per I/O point with our affordable combo analog module.
- Great for applications requiring mixed analog inputs and outputs.
- Mix and match analog inputs and outputs without compromising performance.
- Save money with a single combo analog module, instead of multiple dedicated analog I/O modules.



Key Specifications

- Save rack space with this high performance input/output module.
- Configurable open circuit/output fault detection.
- Supports four data formats.

Specification	Description
No. of Inputs/Outputs	4 Inputs/4 Outputs
Input/Output Types	0 mA - 20 mA, 4 mA - 20 mA, 0 V to +5 V, 0 V to +10 V, ± 10 V
Resolution	16-bit
Input filters	4 Hz, 17 Hz, 62 Hz, 470 Hz
Update Rate	Inputs 131 ms at 17 Hz per channel/ filter per channel; output; 10 ms
Power Consumption	110 mA at 5 V, 125 mA at 24 V
Operating Temp. Range	-20 °C to +65 °C



Also check out our Micro800® Plug-in Modules!

We have plug-ins for BACNet communication, analog inputs for Thermistor, and Universal (voltage, current, thermocouple and RTD/resistance) applications, and a High Current Relay Output module.

Please visit www.spectrumcontrols.com for more information!

Agency Certifications

UL/cUL Certifications

UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD).

UL/cUL Listed UL 61010-2-201

FCC Part 15 Class A compliance

CE Compliant to LV and EMC directives

EN 61010-2-201

EN 61131-2, Programmable Controllers (Clause 8, Zone A & B)

IEC 61000-6-4 (emission) and IEC 61000-6-2 (immunity)

RoHS, REACH



Spectrum Controls

1705 132nd Ave NE
Bellevue, WA 98005

+1 (425) 746-9481

www.SpectrumControls.com

Spectrum@SpectrumControls.com



Copyright ©2018 Spectrum Controls, Inc., All rights reserved.
Printed in USA. Specifications subject to change without notice.

