Enhancing Your Rockwell Automation Control System
Spectrum Controls is the first company to build licensed, core-technology, I/O modules for Rockwell Automation.

As a leader in I/O, our modules lower your costs and enhance your system capabilities. Whether its mixing different signal types on a single Universal Analog card or putting more in your I/O rack with our High-Density modules, we help you win. If process is your game, our Isolated Analog and Analog with HART modules, are just the ticket! These are just a few of the advantages of using I/O from Spectrum Controls.

Our new Universal Industrial Gateway with 12 built-in protocols provides communications between Rockwell Automation products and other devices; allowing you to live the Connected Enterprise.

InView, our full line of industrial LED message displays, are visible from up to 450 feet away and allow you to communicate critical production information in real time.

We offer a full Spectrum of industrial controls products.
Universal Industrial Gateway

Read & Write Data Between Multiple Devices with Different Protocols

- Not just a one-to-one device
- Any port to any port and any protocol to any protocol - all at the same time!
- No programming software to install or lose
- Built-in browser-based configuration
- Built-in context-sensitive Help with step-by-step instructions
- No searching for a lost programming manual
- Field upgradeable: more protocols and features coming
- Data Formatting: Byte-Swap, Word-Swap, Straight Copy

Specifications

- 1 or 2* Ethernet Ports
- 2 or 4 Isolated Serial Ports
- Configurable for RS485 & RS232
- Baud Rates up to 115.2 Kbps
- 8 or 12 Protocols
- 66 Protocol Combinations
- 5,000 Tag Pairs (max)
- 50 Tag Maps with 100 Tag Pairs Per Map
- Dimensions: 5.40” x 2.00” x 3.88”
- RoHS, UL, cUL, CE; Class I, Div 2
- Input Voltage: 12-24 VDC

The Universal Industrial Gateway bridges communication gaps between Rockwell Automation & other Control Systems!

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<th>Catalog Number</th>
<th>Serial Ports</th>
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<th>Protocols</th>
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<td>2</td>
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<td>WP-G-JUPG-P2</td>
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<td>Firmware Upgrade: Converts the -P1 into a -P2</td>
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*sAvailable 2020
PowerFlex® Cards for 753 & 755 Drives

8-Ch Universal Analog Input

- Each input channel individually selectable to any range:
  - Voltage: ±50 mV, ±100 mV, 0-5 V, 0-10 V, ±10 V
  - Current: 0-20 mA, 4-20 mA
  - Resistance: 0-150, 0-500, 0-1,000, 0-3,000Ω
  - RTD (3 or 4 wire): PT385/3916, Ni618/672, NiFe518, Cu427 (RTD uses channel pairs)
- 5 filter frequencies (channel-selectable) for fastest analog update times
- Full auto-calibration; on-board error checking
- Open circuit detection for most input types
- 250 VAC channel-to-chassis ground isolation; 10 VDC channel-to-channel isolation
- Conformal Coated

4-Ch Analog Input + 4-Ch Analog Output

- Each input or output channel individually selectable to any range:
  - Voltage: 0-5 V, 0-10 V, ±10 V
  - Current: 0-20 mA, 4-20 mA
  - High Accuracy, 16 bit resolution increases your productivity!
- 6 filter frequencies (channel-selectable) for fastest analog update times
- Full auto-calibration; on-board error checking
- Open circuit detection for most input types
- 250 VAC channel-to-chassis ground isolation; 10 VDC channel-to-channel isolation
- Conformal Coated

Combine up to 8 Different Analog Input Types & Reduce System Cost

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Free RA TechConnect™ Support Included

4 Analog Inputs & 4 Analog Outputs, Saves Card Slots & Cost

spectrumcontrols.com/powerflex
1734 Point I/O™

4-Ch Universal Analog Input

HART Data to Drive Productivity!

- 2 isolated 4-20 mA with HART or...
- 2 isolated 0-20 mA without HART
- 16-bit resolution, 2/4-wire support
- Auto-scanning of HART variables (PV, SV, TV, FV)
- HART modem per-channel for maximum speed
- HART pass-through messaging
- Open circuit detect, fault reporting, 24 V fault protection & 50 VDC channel-channel isolation
- DTM (Device Type Manager) enables your asset management software

Maximize System Performance by Combining Real-Time HART Data Acquisition With Standard Analog Control at a Fraction of the Cost!

- 2 or 4 channels of 4-20 mA analog + HART
- High accuracy, 16 bit resolution
- Acts as a HART master, allowing communication with HART field devices
- HART pass-through messaging
- Channel-selectable filtering for fastest analog update time and noise rejection
- User calibration and scaling if desired
- Fault reporting capability
- DTM (Device Type Manager) enable your asset management software

1734sc-IF4U

1734sc-OE4CIH

2-Ch Analog Input + HART

2-Ch Isolated Analog Output + HART

1734sc-IE2CH

4-Ch Analog Input + HART

1734sc-IE4CH

4 Universal Inputs Saves Cost

- 4 Analog, 3 Thermocouples or 2 RTDs; individually selectable
- Voltage: ±50 mV, ±100 mV, 0-5 V, 1-5 V, 0-10 V, ±10 V
- Current: 0-20 mA, 4-20 mA
- Resistance: 0-3,000Ω
- Thermocouple: J, K, T, E
- RTD: 100/1000 Ω PT a 0.385/0.3916
- High accuracy, 18 bit resolution
- Channel-selectable filtering

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8 Universal Analog Inputs On a Single Card Saves Rack Space & Cost!

Each input channel individually selectable:
- Voltage: ±50 mV, ±150 mV, 0-5 V, 1-5 V, 0-10 V, ±10 V
- Current: 0-20 mA, 4-20 mA
- Resistance: 250, 500, 1,000, 2,000, 3,000, 4,000Ω
- RTD: PT385/3916, Ni618/672, NiFe518, Cu426
- Thermocouple: J, K, T, B, E, R, S, N, C
- High Accuracy: 16 to 21 bits (filter dependent)
- User scaling, time stamping, and alarms

Monitor Power Usage to Reduce Energy Costs and Waste!
- 8 High Accuracy, (16 bit) Power Inputs:
  - 1 Current (CT), 1 Voltage (PT)
- Provides: real power, apparent power, reactive power, power factor, RMS voltage and RMS current
- 250 VAC: channel-pair-to-channel-pair isolation, channel-to-chassis ground
- Non-typical AC waveforms supported
- Monitor motor performance

High Density Counting = Lower Cost
- 8 incremental, 24-bit, single-ended counters, or 4 pairs of up/down or quadrature counters
- Configure each input group as: 5, 12, or 24 VDC, or 50, 200 mVpp counters, or as turbine flow
- K factor scaling for turbine flowmeters
- Use for flowmeter proving requirements
- Count direction flags; start, stop, reset, & preset control
- 4 external counter enable lines for faster counter control

The Only High Density 48VDC Solution
- 32 channels of 48 Volt DC input
- 8 input channels per group
- Off/On selectable filtering for 0, 1, & 2ms
- On/Off selectable filtering for 0, 1, 2, 9, & 18ms
- Off/On Change-of-State Enable option per input point
- 250 Volts AC RMS continuous isolation from any channel to the backplane & channel to frame ground
1794 FLEX™ I/O

8-Ch Universal **Isolated Analog Input**

- Each isolated input channel individually selectable to:
  - Current: 0-20 mA, 4-20 mA
  - Voltage: ±50 mV, ±100 mV, 0-5 V, 0-10 V, ±10 V
  - Resistance: 0-150, 0-1,000, 0-3,000Ω
  - Thermocouple: J, K, T, B, E, R, S, N, C (Cold junction compensation included)
  - RTD (2, 3 or 4 wire): PT385/3916, Ni618/672, NiFe518, Cu426 (2 channels for 3 & 4 wire)
  - 120 V AC channel-to-channel isolation
  - High accuracy, 16 bit resolution
  - Each channel provides open circuit detection, and high and low range alarms
  - 6 channel-selectable filtering for fastest analog update time and noise rejection
  - Easy to configure using ladder register settings or Studio 5000 programming software

**8-Ch Isolated Thermocouple/RTD Input**

- Each isolated input channel individually selectable to:
  - Resistance: 0-150, 0-1,000, 0-3,000Ω
  - Thermocouple: J, K, T, B, E, R, S, N, C (Cold junction compensation included)
  - RTD (2, 3 or 4 wire): PT385/3916, Ni618/672, NiFe518, Cu426 (2 channels for 3 & 4 wire)
  - 120 V AC channel-to-channel isolation
  - High accuracy, 16 bit resolution
  - Each channel provides open circuit detection, and high and low range alarms
  - 6 channel-selectable filtering for fastest analog update time and noise rejection
  - Easy to configure using ladder register settings or Studio 5000 programming software

Free RA TechConnect™ Support Included

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4-Ch Analog Input + 4-Ch Analog Output

1762sc-IF4OF4

4 Analog Inputs & 4 Analog Outputs, Saves Slots & Cost
- 2 current only (0-20 mA, 4-20 mA) analog inputs AND 2 Universal analog inputs individually selectable to:
  - Current: 0-20 mA, 4-20 mA
  - Voltage: 0-5 V, 1-5 V, 0-10 V, ±10 V
  - Thermocouple: J, K, E, T (with cold junction compensation)
- 4 analog outputs individually selectable to:
  - Current: 0-20 mA, 4-20 mA
  - Voltage: 0-5 V, 1-5 V, 0-10 V, ±10 V
  - High accuracy, 16 bit resolution
  - Channel-selectable filtering for maximum speed with minimum noise
  - For Allen-Bradley MicroLogix 1100 and 1200 systems
  - Easy to configure using ladder register settings or RSLogix programming software

8-Ch Universal Analog Input

1762sc-IF8U

8 Universal Inputs Lowers System Cost
- Each input channel individually selectable to:
  - Voltage: ±50 mV, ±100 mV, 0-5 V, 1-5 V, 0-10 V, ±10 V
  - Current: 0-20 mA, 4-20 mA
  - Resistance: 0-150, 0-1,000, 0-3,000 Ω
  - Thermocouple: J, K, T, B, E, R, S, N, C (cold junction compensation uses 1 channel)
  - RTD (2, 3 or 4-wire): PT385/3916, Ni618/672, NiFe518, Cu426 (2 channels for 3 & 4 wire)
  - High accuracy, 16 bit resolution
  - Channel-selectable filtering
  - Easy to configure using ladder register settings or RSLogix programming software

8-Ch Analog Output

1762sc-OF8

THE High Density Analog Output Solution!
- Lowest cost per analog output
- Each output individually selectable to:
  - Current: 0-20 mA, 4-20 mA
  - Voltage: 0-5 V, 1-5 V, 0-10 V, ±10 V
  - High accuracy, 16 bit resolution
  - Perfect fit for high I/O count analog output applications
  - Easy to configure using ladder register settings or RSLogix programming software
1769 Compact I/O

4-Ch Analog Input + HART
4-Ch Analog Output + HART
8-Ch Universal Analog Input
6-Ch Isolated RTD/Resistance Input
6-Ch Isolated Thermocouple Input

The Only HART Solutions for CompactLogix®

Common specifications...
- Isolated analog inputs/outputs
- Each channel selectable to:
  - 4-20 mA with HART
  - 0-20 mA without HART
  - Voltage: 0.5 V, 1-5 V, 0-10 V
- Current: 0.5 mA, 0-20 mA
- Resistance: 0-100 ohms, 0-1000 ohms, 0-3000 ohms
- RTD: PT385/3916, Ni618/672, NiFe518, Cu426 (2 channels pairs for 3 or 4 wire)
- Thermocouple: J, K, T, B, E, R, S, N, C
- Channel-selectable filtering

8 Universal Inputs for Lowest Cost
- Each channel individually selectable to:
  - Voltage: ±50 mV, ±100 mV, 0-5 V, 1-5 V, 0-10 V
  - Current: 0-150 mA, 0-1,000 mA
  - Resistance: 0-150, 0-1,000, 0-3,000 ohms
- RTD: PT385/3916, Ni618/672, NiFe518, Cu426 (2 channels pairs for 3 or 4 wire)
- Thermocouple: J, K, T, B, E, R, S, N, C
  - Channel-selectable filtering

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The Only Isolated RTD or Thermocouple Solutions for CompactLogix®

6 Isolated inputs individually selectable to:
- Resistance: 0-150, 0-500, 0-1,000, 0-3,000 ohms
- RTD (2, 3 or 4-wire): 100, 200, 500, 1,000 ohms, PT385/3916, 1,000 ohm Ni618, 1,000 ohm Ni672, 604 ohm Ni618, 10 ohm Cu426
- 6 filter frequencies (individually selectable by channel) for fastest update times and noise rejection
- Open circuit detect & individually programmable high and low alarms for each channel
- High accuracy, 16 bit resolution

Now Available — Conformal Coating on all 1769!
1746 SLC™ 500

8-Ch Universal Analog Input
1746sc-NIBU
- Selectable ranges:
  • Voltage: ±50 mV, ±100 mV, ±0.5 V ±2.0 V, 0-5 V, 1-5 V, 0-10 V, ±10 V
  • Current: 0-20 mA, 4-20 mA
  • Resistance: 0-3,000Ω
  • Thermocouple: J, K, T, B, E, R, S, N, C
  • RTD: PT385/3916, Ni618/672, Cu426

8-Ch Isolated, 74 to 276 VAC Triac Output
1746sc-OAP8I
- 1,500 V output-to-output isolation allows mixing phases and control voltages on one module
- Each circuit is individually protected, and provides a ‘fuse blown’ indication to the SLC 500™, identifying which fuse has opened
- Completely solid-state with no relays to fail

4-Ch Counter/Flowmeter
1746sc-CTR4
- 4 incremental, single-ended counters or up to two pairs for up/down or quadrature counters
- Configure each input group as 5, 12, or 24 VDC counters, or as turbine flow (Variable Reluctance Coil) AC inputs.
- Counter Speed: 0 Hz to 50 kHz
- Includes scaling K factor for turbine flowmeters
- Use for flowmeter proving requirements

8-Ch Counter/Flowmeter
1746sc-CTR8
- 8 incremental, single-ended counters or up to four pairs for up/down or quadrature counters
- Configure each input group as 5, 12, or 24 VDC counters, or as turbine flow (Variable Reluctance Coil) AC inputs.
- Counter Speed: 0 Hz to 50 kHz
- Includes scaling K factor for turbine flowmeters
- Use for flowmeter proving requirements

4-Ch Isolated Analog Input (V/C)
1746sc-INIV8
- 4 isolated analog inputs individually selectable to:
  • Current: 0-20 mA, 4-20 mA
  • Voltage: 0-5 V, 1-5 V, 0-10 V, ±10 V
  • High accuracy, 16 bit resolution
  • Easy to configure using ladder register settings or RSLogix programming software

4-Ch Isolated Analog Input (C)
1746sc-INIC4
- 4 isolated analog inputs individually selectable to:
  • Current: 0-20 mA, 4-20 mA
  • High accuracy, 16 bit resolution
  • Easy to configure using ladder register settings or RSLogix programming software

4-Ch Isolated Analog Output (V/C)
1746sc-INO4VI
- 4 isolated analog inputs individually selectable to:
  • Current: 0-20 mA, 0-21 mA, 4-20 mA
  • Voltage: 0-5 V, 1-5 V, 0-10 V, ±10 V
  • High accuracy, 16 bit resolution
  • Easy to configure using ladder register settings or RSLogix programming software

4-Ch Isolated Analog Output (C)
1746sc-INOC4I
- 4 isolated analog inputs individually selectable to:
  • Current: 0-20 mA, 0-21 mA, 4-20 mA
  • Use any combination of input types at one time
  • High accuracy, 16 bit resolution
  • Easy to configure using ladder register settings or RSLogix programming software
InView® Industrial LED Displays

2-Inch High Display
- 2706-P22R-SC (12" wide)

4-Inch High Display
- 2706-P42R-SC (36" wide)
- 2706-P42C2-SC (36" wide)
- 2706-P44R-SC (72" wide)
- 2706-P44C2-SC (72" wide)

7-Inch High Display
- 2706-P72CN2-SC (36" wide)
- 2706-P72CN1-SC* (36" wide)
- 2706-P74CN2-SC (60" wide)
- 2706-P74CN1-SC* (60" wide)

10-Inch High Display
- 2706-P92C2-SC (40" wide)
- 2706-P92C2X-SC* (40" wide)
- 2706-P94C2-SC (69" wide)
- 2706-P94C2X-SC* (69" wide)

Message Visibility From Up To 450 Feet Away!
- Vastly superior viewing angle than LCD & most LED displays
- Dynamic messaging, with the use of variables, for real-time information
- NEMA rated enclosures, purpose-built for the industrial environment
- Fully licensed Rockwell Automation technology

* NEMA 4X Stainless Steel Enclosures Available

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InView® Communication Modules

Preferred Compatibility with Rockwell Automation Controllers!

- Insanely Easy to Program!
  - No programming software to install or lose
  - Built-in, Easy & Intuitive browser-based programming
  - No searching for a lost programming manual
  - Built-in context-sensitive Help with step-by-step instructions
  - Upgrade your old InView comm's module!
  - Supports: EtherNet/IP, EtherNet TCP/IP & Modbus TCP/IP

InView Communications Module Selection Guide

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<th>2706-PENETM2-SC</th>
<th>2706-PENETM2C2-SC</th>
<th>2706-PENETK2-SC</th>
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2706-P44R-SC (72" wide)
2706-P44C2-SC (72" wide)
2706-P42R-SC (36" wide)
2706-P42C2-SC (36" wide)
2706-P72CN2-SC (36" wide)
2706-P72CN1-SC* (36" wide)
2706-P74CN2-SC (60" wide)
2706-P74CN1-SC* (60" wide)
2706-P92C2-SC (40" wide)
2706-P92C2X-SC* (40" wide)
2706-P94C2-SC (69" wide)
2706-P94C2X-SC* (69" wide)
2706-P74C2-SC (69" wide)
2706-P74C2X-SC* (69" wide)
MicroSD Memory with Real Time Clock
2080-SDMEMRTC-SC
• Real Time Clock Functionality
• MicroSD Memory card sizes 4, 8, 16 and 32 GB
• Data logging up to 10 MB of data per day
• Firmware update of the controller no longer requires carrying around a PC as the MicroSD card will complete this function
• Commissioning new machines / replacing the controller is quick & easy
• Store up to 10 Recipe sets with 128 variables each, max. of 50 Recipes per set
• The MicroSD Memory card sizes 4, 8, 16 and 32 GB
• Real Time Clock Functionality

2080 Plug-In I/O

BACNet Communications
(Serial & Ethernet)
2080sc-BAC
• 1 Ethernet communications channel
• 1 serial communications channel
• RS-485 or RS-232 configurable
• 5 standard BACnet objects supported
• Reduce system cost
• Improve energy efficiency
• Automate lighting control
• Add your machine into your building automation system

4 Universal Analog Inputs
2080sc-IF4U
• Each input channel selectable to:
• Current: 0-20 mA, 4-20 mA
• Voltage: ±50 mV, ±100 mV, 0.5 V, 0-10 V, ±10 V
• Resistance: 0-100, 0-1,000, 0-3,000Ω
• Thermocouple: J, K, T, E (cold junction compensated)
• RTD (Ω, 3 or 4 wire): Pt385/3916, 100Ω/1,000Ω (1 input pair per 4 wire RTD)
• Channel-selectable filtering

4 Thermistor Input
2080sc-NTC
• Four channels of thermistor/res-istance (2-wire resistance) inputs
• NTC thermistor support
• Fully linearized sensor data
• High accuracy, 16 bit resolution
• Channel-selectable filtering for fastest analog update time and noise rejection
• Use for high current loads without the need for interposing relays!

2 High Current Relay Outputs
2080sc-OZ2HIC
• 2-form A, Normally Open relays
• 10A at 120V AC or 250VAC
• Channel to channel isolated
• LED indicators show visual status of the relay state
• Supports range alarms with latches
• High accuracy, 16 bit resolution

The Highest Density Analog Inputs & Outputs for Micro800™ Controllers

32-Ch 24V Source/Sink
Discrete Outputs
2085-0B32-SC (source)
2085-0V32-SC (sink)
• 0.5 Amps per output
• Report module status including brownout detection
• One LED indicator per point
• Highest density discrete outputs for Micro800™ controllers

B-Ch Universal Analog Input
2085-sc-IF9U
• Current: 0 - 20 mA, 4 - 20 mA
• Voltage: ±50 mV, ±100 mV, 0 - 5 V, 0 - 10 V, ±10 V
• Resistance: 150, 500, 1,000 & 3,000 Ω
• Thermocouple: Type J, N, K, T, E, S, R, C, B
• RTD: Pt100, Pt3916, Ni618, Ni672, Cu426 & NiFe 518
• Open circuit detection

8-Ch Universal Analog Input
2085-sc-IF8U
• Current: 0 - 20 mA, 4 - 20 mA
• Voltage: ±50 mV, ±100 mV, 0 - 5 V, 0 - 10 V, ±10 V
• Configurable open circuit/ output fault detection
• Supports range alarms with latches
• Open circuit detection, Range scaling of input data in module

16-Ch High-Density Analog Input
2085-sc-IF16C
• Current: 0-20 mA, 4-20 mA
• Voltage: ±50 mV, ±100 mV, 0-5 V, ±10 V
• High accuracy, 16 bit resolution
• Supports range alarms with latches
• Open circuit detection, Range scaling of input data in module

16-Ch High-Density Analog Input
2085-sc-OF8
• Configurable outputs:
• Current: 0-20 mA, 4-20 mA
• Voltage: 0-5 V, 0-10 V, ±10 V
• Supports range alarms with latches
• Open circuit detection, Range scaling of input data in module

16-Ch High-Density Analog Input
2085-sc-IF16V
• Current: 0-20 mA, 4-20 mA
• Voltage: ±50 mV, ±100 mV, 0-5 V, ±10 V
• High accuracy, 16 bit resolution
• Supports range alarms with latches
• Open circuit detection, Range scaling of input data in module

8-Ch High-Density Analog Output
2085-sc-IF8V
• Current: 0-20 mA, 4-20 mA
• Voltage: ±50 mV, ±100 mV, 0-5 V, ±10 V
• High accuracy, 16 bit resolution
• Supports range alarms with latches
• Open circuit detection, Range scaling of input data in module

8/16-Ch Thermocouple Analog Input
2085-IT16-SC
• Current: 0-20 mA, 4-20 mA
• Voltage: ±50 mV, ±100 mV, 0-5 V, ±10 V
• High accuracy, 16 bit resolution
• Configurable open circuit detection
• Differential inputs provide 10 VDC of channel-to-channel isolation

8-Ch RTD Analog Input
2085-IR8-SC
• 8 channels of input:
• RTD: 100, 200, 500, and 1,000 Ω
• Ni618, Ni672, 100Ω Cu 426, 604 Ω NiFe 518
• Resistance: 0-150, 0-500, 0-1000 & 0-3000Ω
• Open circuit detection

16-Ch High-Density Analog Input
2085-sc-CF8
• Current: 0-20 mA, 4-20 mA
• Voltage: ±50 mV, ±100 mV, 0-5 V, ±10 V
• High accuracy, 16 bit resolution
• Supports range alarms with latches
• Open circuit detection, Range scaling of input data in module

16-Ch High-Density Analog Input
2085-sc-CF16
• Current: 0-20 mA, 4-20 mA
• Voltage: ±50 mV, ±100 mV, 0-5 V, ±10 V
• High accuracy, 16 bit resolution
• Supports range alarms with latches
• Open circuit detection, Range scaling of input data in module

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