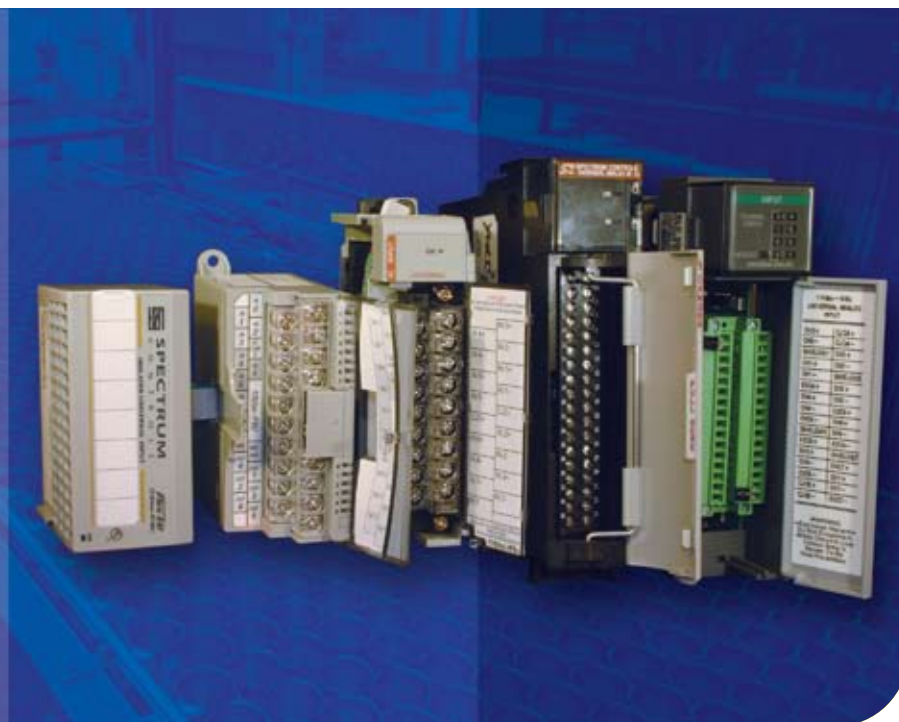


# Complete I/O

## Solutions For Rockwell Automation Industrial Controllers

- ◆ *Core, licensed Rockwell Automation technology on board every I/O module.*
- ◆ *Technical support provided by Rockwell Automation at no cost to customer, providing truly integrated support 24 | 7 | 365.*
- ◆ *Spectrum Controls I/O modules featured in Rockwell's 'IAB' and 'RAISE' tools.*
- ◆ *Add-on profiles from Rockwell seamlessly integrate Spectrum Controls I/O modules into RSLogix™.*



### The Leader in I/O for the Industrial Controls Marketplace

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. As a global Encompass partner, technical support is offered through the

Rockwell TechConnect Support program, for every Spectrum Controls I/O module at no additional cost to the customer.

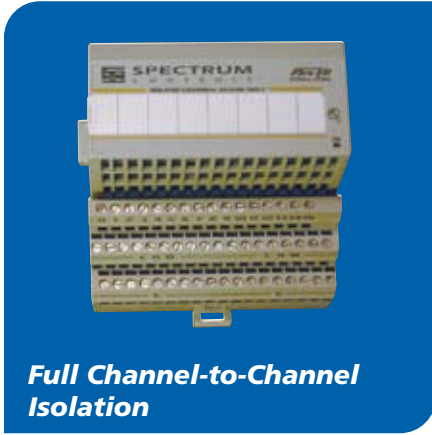
Our market-driven I/O product offering provides cost-effective solutions to complex application requirements. High performance, increased channel density, and versatile configuration options are just a few of the advantages of using I/O from Spectrum Controls.



# SPECTRUM

C O N T R O L S

## 1794 Flex™ I/O



Full Channel-to-Channel Isolation

### Universal Analog Input | 8 Channels

Catalog No. 1794sc-IF8IU

NEW

- ◆ Eight individually configurable channels for voltage, current, thermocouple, RTD and resistance.
- ◆ Any combination of inputs can be used simultaneously.
- ◆ Full channel to channel isolation.
- ◆ Reduce system costs by replacing dedicated I/O with one module.

### RTD/Thermocouple Input | 8 Channels

Catalog No. 1794sc-IRT8I

NEW

- ◆ Eight channels of thermocouple, RTD/resistance input provide a flexible solution for applications requiring mixed temperature input.
- ◆ Any combination of inputs can be used simultaneously.
- ◆ Full channel to channel isolation.

## 1762 MicroLogix™ 1100/1200/1400



Configurable for voltage, current, thermocouple, RTD and resistance

### Universal Analog Input | 8 Channels

Catalog No. 1762sc-IF8U

NEW

- ◆ Eight individually configurable channels for up to 33 input types.
- ◆ Any combination of inputs can be used simultaneously.
- ◆ Reduce system costs by replacing dedicated I/O with one module.

### Combination Analog Input & Output | 8 Channels

Catalog No. 1762sc-IF4OF4

COMING SOON

- ◆ Four channels each of input and output on one module.
- ◆ Reduce costs by replacing dedicated analog input, thermocouple (JKNE) and analog output modules without compromising performance.

### Analog Output | 8 Channels

Catalog No. 1762sc-OF8

COMING SOON

- ◆ Flexible solution for applications requiring high density analog output.
- ◆ Any combination of current or voltage outputs may be used at one time.

## 1771 PLC-5®



High density or isolated IO for legacy controllers

### High Density Analog Input | 32 Channels

Catalog No. 1771sc-IFE32

- ◆ Ideal for high channel density applications in industrial and process environments.
- ◆ 32 single-ended or 16 differential analog inputs.

### Isolated Discrete Input & Triac Output | 16 Channels

Catalog No. 1771sc-IMI16, 1771sc-ICI16, 1771sc-OMI16

- ◆ Represents an upgraded replacement for PLC-5 discrete I/O modules.
- ◆ Provides 1500 volts input to input isolation.
- ◆ Inputs can sink or source just like a relay contact module.
- ◆ The OMI16 has 74-276VAC triac outputs and is ideal for motor starters and other inductive loads as it is completely solid-state, no relays to fail.

## 1769 Compact I/O™

### Universal Analog Input | 8 Channels

**Catalog No. 1769sc-IF8U**

- ◆ Eight individually configurable channels for voltage, current or thermocouple and combine channel pairs for RTD and resistance.
- ◆ Any combination of inputs can be used simultaneously.
- ◆ Offers user selectable engineering units, filter frequencies, and a wide variety of input types.

### Isolated RTD or Thermocouple Input | 6 Channels

**Catalog No. 1769sc-IR6I, 1769sc-IT6I**

**COMING SOON**

- ◆ **1769sc-IR6I** has six channels of RTD/resistance inputs.
- ◆ **1769sc-IT6I** has six channels of thermocouple inputs.
- ◆ Full channel to channel isolation.

### Isolated Analog+HART Input/Output | 4 Channels

**Catalog No. 1769sc-IF4IH, 1769sc-OF4IH**

Analog+HART I/O modules interface directly with HART-enabled field instruments. The modules provide standard analog data and allow bi-direction HART communication.

- ◆ Exploit the power of existing HART field instruments and build the foundation of a powerful control and asset management system.
- ◆ Obtain real-time analog and HART data without additional wiring, external bridge devices or hand-held communicators.
- ◆ Full channel-to-channel isolation.
- ◆ Four channels, each easily configured for voltage, current or current and HART signals.
- ◆ Compatible with CompactLogix and MicroLogix 1500.



Enabling Communication from Device to Enterprise



**HART AssetWare Gateway for Analog + HART I/O Modules**

**Catalog No. SCX-3000**

CONNECTS assetware gateway software provides the ability to manage field devices from an enterprise workstation, using existing device configuration and asset management software. CONNECTS processes native HART commands and packages them so they may be sent to the PLC backplane. CONNECTS eliminates the need to design custom device configuration and asset management software.



## 1756 ControlLogix®

### Universal Analog Input | 8 Channels

**Catalog No. 1756sc-IF8u**

- ◆ Eight individually configurable channels for voltage, current, thermocouple, RTD and resistance.
- ◆ Any combination of inputs can be used simultaneously.
- ◆ Easily configured using your existing programming software
- ◆ Offers accuracy and resolution comparable to dedicated I/O. Reduce system costs by eliminating the need for dedicated analog I/O.

### Counter/Flowmeter | 8 Channels

**Catalog No. 1756sc-CTR8**

- ◆ Supports eight single-ended counters or combine input pairs for quadrature counters. AC and DC input types are supported.
- ◆ Simultaneous count and rate data is available for each input with rates of up to 65KHz.
- ◆ External counter enable lines available for dynamic counter control.
- ◆ Also features user definable scaling, limits, input control and filters.





**Configurable  
for voltage,  
current, thermocouple,  
RTD and resistance**

## Universal Analog Input | 8 Channels

**Catalog No. 1746sc-NI8u**

- ◆ Eight individually configurable channels for voltage, current or thermocouple, or reserve channels 4 through 7 for RTD/resistance.
- ◆ Any combination of inputs can be used simultaneously.
- ◆ Ideal for OEMs and system integrators. Reduce the need for dedicated analog modules by using one universal analog module.
- ◆ Simple configuration using ladder register settings and jumpers.
- ◆ Inputs individually configurable for data formats and filter frequencies.
- ◆ Fully auto-calibrating including cold-junction compensation for thermocouples.

## Counter/Flowmeter | 4 or 8 Channels

**Catalog No. 1746sc-CTR4, 1746sc-CTR8**

- ◆ Supports eight single-ended counters or combine input pairs for quadrature counters. AC and DC input types are supported.
- ◆ External counter enable lines available for dynamic counter control.
- ◆ Also features user definable scaling, limits, input control and filters.

## DTAM™ Plus / Micro

**Character Based  
Operator Interfaces**

Contact Spectrum Controls at **1-425-746-9481** or your distributor for more information on replacement/upgrade options. Interfaces feature LCD displays with numeric keypads and programmable function keys. More information is available at [www.spectrumcontrols.com/soi.htm](http://www.spectrumcontrols.com/soi.htm).

## Isolated Analog Input/Output | 4 Channels

**Catalog No. 1746sc-INI4ilvi, 1746sc-INO4ilvi**

- ◆ 750Vdc channel to channel isolation.
- ◆ Eliminates the need for expensive external isolators.
- ◆ Isolation reduces susceptibility to electrical noise, cross-talk between channels and ground loop problems.

## WebPort®

**Remote Access  
for your PLCs**



WebPort is an online gateway to your control system, providing remote access and control from virtually anywhere via the internet or modem. For more information, contact Spectrum Controls at **1-425-746-9481** or go online at [www.spectrumcontrols.com/webport.htm](http://www.spectrumcontrols.com/webport.htm).

## Isolated Discrete Input | 8 Channels

**Catalog No. 1746sc-IA8I, 1746sc-IB8I, 1746sc-IC8I, 1746sc-IM8I**

- ◆ Eight channel to channel isolated inputs, can be sink or source.
- ◆ Inputs do not give "false on" when used with proximity switches or other devices with high leakage current.
- ◆ Separate commons for each input point allow mixed input types.

## Isolated Discrete Output | 8 Channels

**Catalog No. 1746sc-OAP8I**

- ◆ Ideal for motor starters and other inductive loads.
- ◆ Each circuit is individually fuse protected and provides "fuse blown" indication to the SLC 500, pinpointing which fuse has opened. Completely solid state, no relays to fail.
- ◆ Can be wired directly to Spectrum Controls 1746 isolated discrete input modules to monitor output state.

