

User's Manual Pub. 0300266-01 Rev. B

Point IO™ 4 Universal Analog Input Module

Catalog Number: 1734sc-IF4U



Important Notes

1. Please read all the information in this owner's guide before installing the product.
2. The information in this owner's guide applies to hardware Series A and firmware version 1.00 or later.
3. This guide assumes that the reader has a full working knowledge of the relevant processor.

Notice

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PREFACE

Read this preface to familiarize yourself with the rest of the manual. This preface covers the following topics:

- Who should use this manual
- How to use this manual
- Related publications
- Conventions used in this manual
- Rockwell Automation support

Who Should Use This Manual

Use this manual if you are responsible for designing, installing, programming, or troubleshooting control systems that use Allen-Bradley I/O and/or compatible controllers, such as CompactLogix and ControlLogix.

How to Use This Manual

As much as possible, we organized this manual to explain, in a task-by-task manner, how to install, configure, program, operate and troubleshoot a control system using the 1734sc-IF4U.

Related Documentation

The table below provides a listing of publications that contain important information about Allen-Bradley PLC systems.

<i>For</i>	<i>Refer to this Document</i>	<i>Allen-Bradley Pub. No.</i>
A description and overview of the 1734 and 1734D series POINT I/O modules and compatible control platforms. Also includes an overview of how to specify a POINT I/O system.	POINT I/O Selection Guide	1734-SG001
Information about how to install the 1734-EP24DC, Series B POINT I/O 24V dc Expansion Power Supply.	Expansion Power Supply Installation Instructions	1734-IN058
Information about how to install 1734-TB and -TBS POINT I/O Wiring Base Assemblies	Wiring Base Assembly Installation Instructions	1734-IN511
Information about how to install 1734-TB3 and -TB3S POINT I/O Wiring Base Assemblies.	Wiring Base Assembly Installation Instructions	1734-IN013

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Conventions Used in This Manual

The following conventions are used throughout this manual:

- Bulleted lists (like this one) provide information not procedural steps.
- Numbered lists provide sequential steps or hierarchical information.
- *Italic* type is used for emphasis
- **Bold** type identifies headings and sub-headings



- **Attention** Are used to identify critical information to the reader

Chapter 1

Module Overview

The 1734sc-IF4U module has four analog input channels that support current, voltage, RTD, resistance and thermocouple input types. This chapter includes information about:

- General description
- Input types
- Data Formats
- Filter frequencies
- Hardware Features
- System overview and module operation

Section 1.1 General Description

The IF4U module digitally converts and stores analog data for each configured input. Each input channel can be independently configured for input type, data format and filter frequency.

Section 1.2 Input Types

The IF4U module supports the following input types.

Table 1-1 (Input Types)

Input Type	Range
E Type Thermocouple	-270 to 1000 °C (-454 to 1832 °F)
J Type Thermocouple	-210 to 1200 °C (-346 to 2192 °F)
K Type Thermocouple	-270 to 1370 °C (-454 to 2498 °F)
T Type Thermocouple	-270 to 400 °C (-270 to 752 °F)
100 Ω Pt α 0.385	-200 to 850 °C (-328 to 1562 °F)
1000 Ω Pt α 0.385	-200 to 850 °C (-328 to 1562 °F)
100 Ω Pt α 0.3916	-200 to 630 °C (-328 to 1166 °F)
1000 Ω Pt α 0.3916	-200 to 630 °C (-328 to 1166 °F)
Resistance	0 to 3000 Ω
Voltage	+/- 50 mV
	+/- 100 mV
	+/- 1 V
	0 to 5V
	1 to 5V
	+/- 10V
	0 to 10V
Current	4 to 20 mA
	0 to 20 mA
CJC	-25 to 85 °C

Section 1.3 Data Formats

For each channel the data can be configured for:

- Engineering Units x1
- Engineering Units x10
- Scaled-for-PID
- Raw/proportional counts

Section 1.4 Filter Frequencies

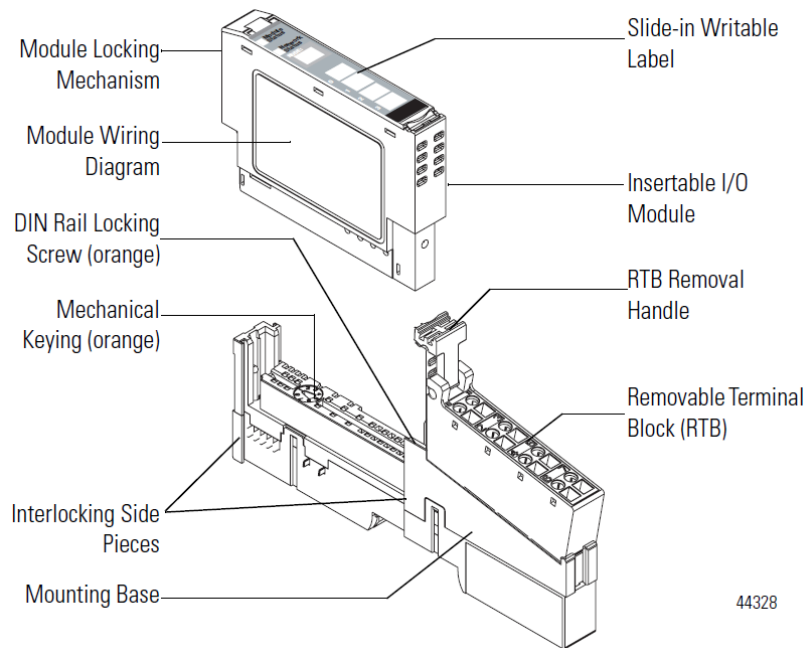
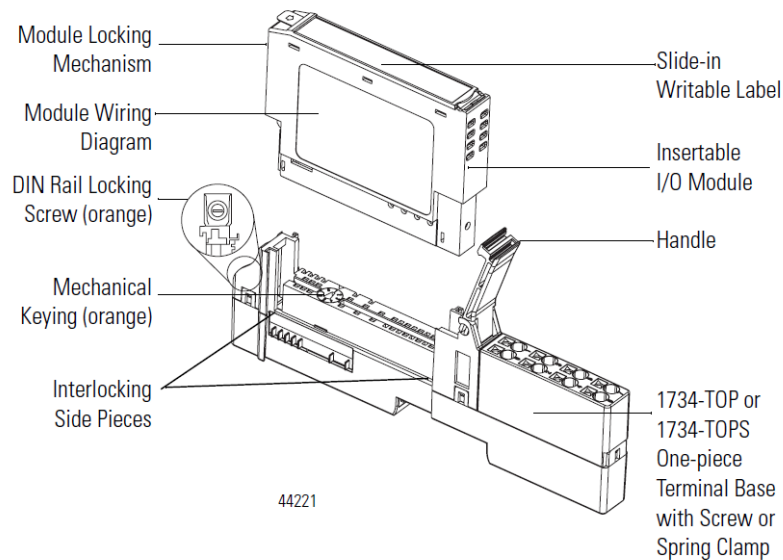
The module uses a notch filter to provide noise rejection for each input channel. The filter for each channel is programmable allowing you to select from 4 different filter options:

- 4.17 Hz
- 16.7 Hz
- 62 Hz
- 470 Hz

Section 1.5 Hardware Features

Channels are wired as differential inputs.

Module configuration is done via the controller's programming software. The module configuration is stored in the memory of the controller. Refer to your controller's user manual for more information. The illustration below shows the module's hardware features.

Figure 1**Figure 2**

1.5.1 LED Indicators

The 1734 analog HART module uses several LEDs to show operational status. The status LEDs are defined below:

Table 1-2 (LED Status Indicators)

Indicator	State	Description
Module Status	Off	No power applied to device
	Solid Green	Device operating normally

Indicator	State	Description
	Flashing Green	Device needs commissioning due to configuration missing, incomplete, or incorrect. NOTE: The module always sets default values for invalid configurations. Therefore, this status will not be shown.
	Flashing Red	Not used with this module.
	Solid Red	Recoverable fault. ADC communications fault, or backplane communications error.
	Flashing Red/Green	Device is in self-test mode. This is only used during factory test and power-up.
Channel Status	Off	Channel disabled. Will remain off after power-up until connection established. Analog processing will not take place if no connection is made.
	Solid Green	Normal (channel scanning inputs)
	Flashing Green	Calibration mode.
	Solid Red	Major channel fault. ADC communications fault. Analog values will remain at current state until fault has recovered.
	Flashing Red	Channel at end of range
	Flashing Red/Green	Displayed during power-up.
Network Status	Off	Device not powered/Not online.
	Solid Green	Device operational AND online AND connected.
	Flashing Green	Device operational AND online but not connected. -OR- Device online AND device needs commissioning.
	Flashing Red	Minor fault AND/OR connection timeout AND/OR no network power.
	Solid Red	Critical fault OR critical link failure.
	Flashing Red/Green	Communication faulted and received an identify comm fault request - long protocol. Also displayed during power-up.

Section 1.6 System Overview

The module communicates to the controller via a 1734 Control Net, Device Net or Ethernet adapter. The module receives 5 and 24V dc power through the bus interface.

1.6.1 Module Power-up

At power-up, the module performs a check of its internal circuits, memory, and basic functions. If no faults are found during power-up diagnostics, the module status LED is turned on.

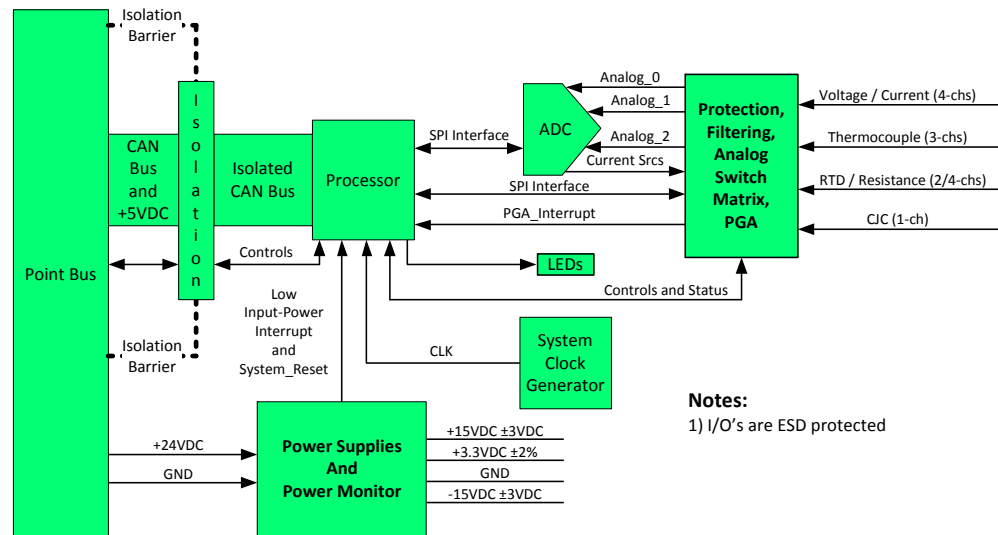
After power-up checks are complete, the module waits for valid channel configuration data. If an invalid configuration is detected, the module will generate a PLC fault. Once a channel is properly configured and enabled, it continuously converts the input data to a value within the range selected for that channel.

1.6.2 Module Operation

The 1734sc-IF4U module provides four independent analog input channels. Each channel includes four selectable filter settings and can be configured for voltage, thermocouple, current, resistance or RTD input types.

The 1734sc-IF4U module utilizes a 20-bit Sigma-Delta ADC (Analog to Digital Converter) to achieve 18-bit resolution. Inputs to the ADC are first multiplexed through analog switches then buffered by a precision, low offset and drift, programmable gain amplifier. The ADC also provides the programmable current source used in resistive measurements.

The 1734sc-IF4U plug-in module communicates over its isolated CAN Bus interface through the module backplane. The 1734 network adapter then communicates to the PLC controller. See the block diagram below.



Chapter 2

Installation and Wiring

This chapter will cover:

- Compliance to European union directives
- Power requirements
- General considerations
- Mounting
- Field wiring connections

Section 2.1 Compliance to European Union Directives

This product is approved for installation within the European Union and EEA regions. It has been designed and tested to meet the following directives.

2.1.1 EMC Directive

The 1734sc-IF4U module is tested to meet Council Directive 89/336/EEC Electromagnetic Compatibility (EMC) and the following standards, in whole or in part, documented in a technical construction file:

- IEC 61000-6-4 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- IEC 61000-6-2 Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments

This product is intended for use in an industrial environment.

2.1.2 Low Voltage Directive

This product is tested to meet Council Directive 73/23/EEC Low Voltage, by applying the safety requirements of EN 61131-2 Programmable Controllers, Part 2 – Equipment Requirements and Tests. For specific information required by EN61131-2, see the appropriate sections in this publication, as well as the following Allen-Bradley publications:

- *Industrial Automation, Wiring and Grounding Guidelines for Noise Immunity*, publication 1770-4.1
- *Automation Systems Catalog*, publication B113

Section 2.2 Power Requirements

The module receives power through the bus interface from the +5V dc/+24V dc system power supply. The maximum current drawn by the module is shown in the table below.

5 VDC	24 VDC
15 mA (max)	20 mA (max)

Use the table below to determine the maximum number of IF4U modules that can be installed in a MicroLogix system.

Section 2.3

General Considerations

1734 I/O is suitable for use in an industrial environment when installed in accordance with these instructions. Specifically, this equipment is intended for use in clean, dry environments Pollution degree 2¹ and to circuits not exceeding Over Voltage Category II²(IEC 60664-1)³.

2.3.1 Hazardous Location Considerations

This equipment is suitable for use in Class I, Division 2, Groups A, B, C, D or non-hazardous locations only. The following WARNING statement applies to use in hazardous locations.

 Attention	EXPLOSION HAZARD
	• Substitution of components may impair suitability for Class I, Division 2. • Do not replace components or disconnect equipment unless power has been switched off or the area is known to be non-hazardous. • Do not connect or disconnect components unless power has been switched off or the area is known to be non-hazardous. • This product must be installed in an IP54 rated enclosure. • All wiring must comply with N.E.C. article 501-4(b).

¹ Pollution Degree 2 is an environment where, normally, only non-conductive pollution occurs except that occasionally a temporary conductivity caused by condensation shall be expected.

² Over Voltage Category II is the load level section of the electrical distribution system. At this level transient voltages are controlled and do not exceed the impulse voltage capability of the product's insulation.

³ Pollution Degree 2 and Over Voltage Category II are International Electrotechnical Commission (IEC) designations.

2.3.2 Prevent Electrostatic Discharge



Attention

Electrostatic discharge can damage integrated circuits or semiconductors if you touch analog I/O module bus connector pins or the terminal block on the input module. Follow these guidelines when you handle the module:

- Touch a grounded object to discharge static potential.
- Wear an approved wrist-strap grounding device.
- Do not touch the bus connector or connector pins.
- Do not touch circuit components inside the module.
- If available, use a static-safe work station.
- When it is not in use, keep the module in its static-shield bag.

2.3.3 Remove Power



Attention

Remove power before removing or inserting this module. When you remove or insert a module with power applied, an electrical arc may occur. An electrical arc can cause personal injury or property damage by:

- Sending an erroneous signal to your system's field devices, causing unintended machine motion
- Causing an explosion in a hazardous environment

Electrical arcing causes excessive wear to contacts on both the module and its mating connector and may lead to premature failure.

2.3.4 Selecting a Location

Reducing Noise

Most applications require installation in an industrial enclosure to reduce the effects of electrical interference. Analog inputs are highly susceptible to electrical noise. Electrical noise coupled to the analog inputs will reduce the performance (accuracy) of the module. Group your modules to minimize adverse effects from radiated electrical noise and heat. Consider the following conditions when selecting a location for the analog module. Position the module:

- Away from sources of electrical noise such as hard-contact switches, relays, and AC motor drives
- Away from modules which generate significant radiated heat. Refer to the module's heat dissipation specification.

In addition, route shielded, twisted-pair analog input wiring away from any high voltage I/O wiring.

Section 2.4 Mounting

2.4.1 Before You Begin

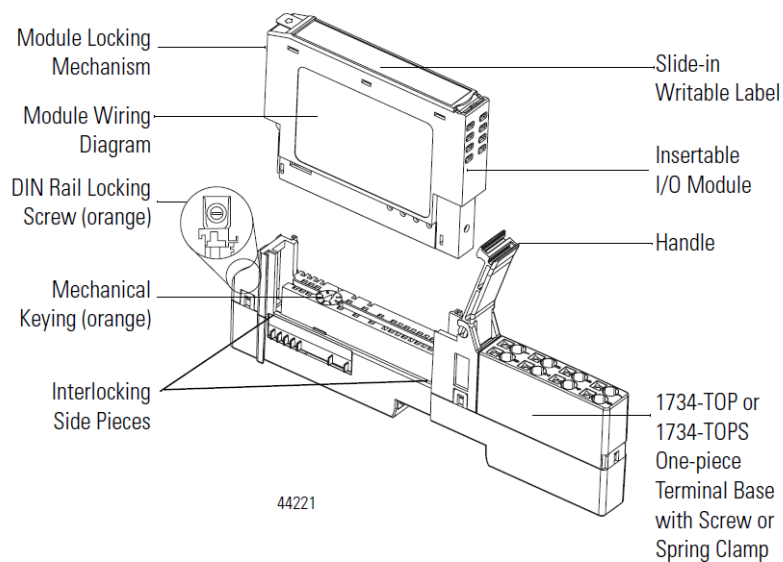
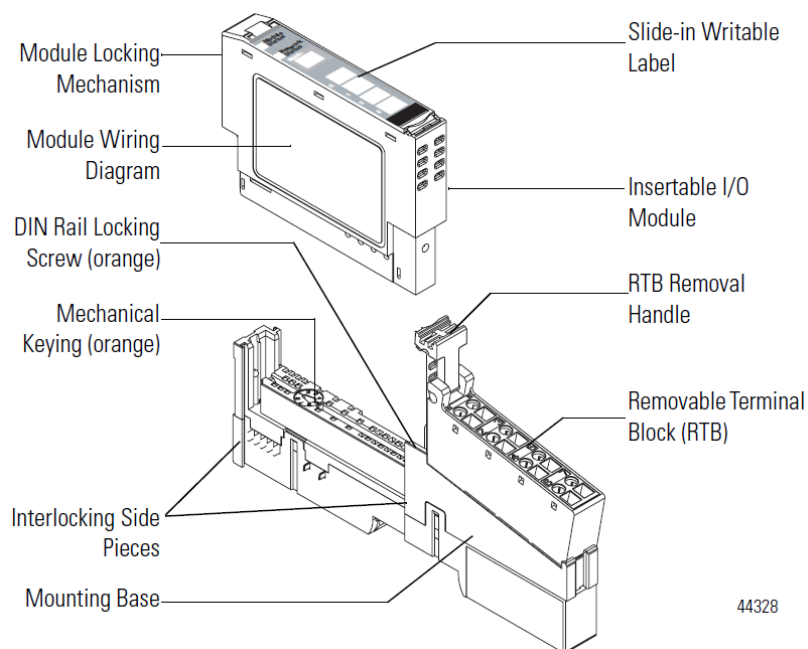
Note that this series C product can be used with the following:

- ControlNet and EtherNet/IP adapters ONLY, using RSLogix 5000 software, version 11 or later

See the figures to familiarize yourself with major parts of the module, noting that the

wiring base assembly is one of the following:

- 1734-TB or 1734-TBS POINT I/O two-piece terminal base, which includes the 1734-RTB removable terminal block and 1734-MB mounting base
- 1734-TOP or 1734-TOPS POINT I/O one-piece terminal base



2.4.2 Install Mounting Base



Attention

During panel or DIN rail mounting of all devices, be sure that all debris (metal chips, wire strands, etc.) is kept from falling into the module. Debris that falls into the module could cause damage when power is applied to the module.

To install the mounting base on the DIN rail, proceed as follows:

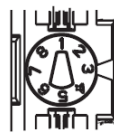
- 1.) Position the mounting base vertically above the installed units (adapter, power supply or existing module).
- 2.) Slide the mounting base down allowing the interlocking side pieces to engage the adjacent module or adapter.
- 3.) Press firmly to seat the mounting base on the DIN rail. The mounting base will snap into place.
- 4.) To remove the mounting base from the DIN rail, remove the module, and use a small bladed screwdriver to rotate the base locking screw to a vertical position. This releases the locking mechanism. Then lift straight up to remove.

2.4.3 Install the I/O Module

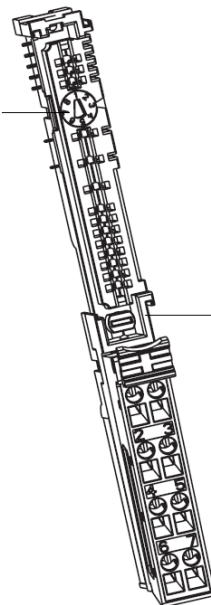
The module can be installed before, or after base installation. Make sure that the mounting base is correctly keyed before installing the module into the mounting base. In addition, make sure the mounting base locking screw is positioned horizontal referenced to the base.

1734-TB Base

Turn the keyswitch to align the number with the notch. Notch position 3 is shown.



44009



Be sure the DIN-rail locking screw is in the horizontal position.

44229

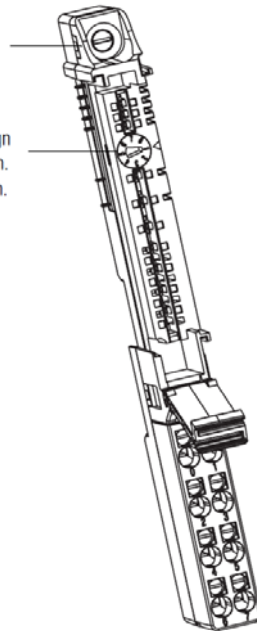
1734-TOP Base

Be sure the DIN-rail locking screw is in the horizontal position.

Turn the keyswitch to align the number with the notch. Notch position 1 is shown.



44325



44228

- 1.) Using a bladed screwdriver, rotate the key switch on the mounting base clockwise until the number required for the type of module being installed aligns with the notch in the base.
- 2.) Make certain the DIN rail locking screw is in the horizontal position. (You cannot insert the module if the locking mechanism is unlocked.)
- 3.) Insert the module straight down into the mounting base and press to secure. The module will lock into place.

2.4.4 Install the Removable Terminal Block (RTB)

A removable terminal block is supplied with your wiring base assembly. To remove the terminal block, pull up on the RTB handle. This allows the mounting base to be removed and replaced as necessary without removing any of the wiring. To reinsert the removable terminal block, proceed as follows.

- 1.) Insert the end opposite the handle into the base unit. This end has a curved section that engages with the wiring base.
- 2.) Rotate the terminal block into the wiring base until it locks itself in place.
- 3.) If an I/O module is installed, snap the RTB handle into place on the module.

2.4.5 Remove a Mounting Base

To remove a mounting base, you must remove any installed module, and the module installed in the base to the right. Remove the removable terminal block (if wired).

- 1.) Unlatch the RTB handle on the I/O module.
- 2.) Pull on the RTB handle to remove the removable terminal block.
- 3.) Press on the module lock on the top of the module.
- 4.) Pull on the I/O module to remove from the base.
- 5.) Repeat steps 1, 2, 3 and 4 for the module to the right.
- 6.) Use a small bladed screwdriver to rotate the orange base locking screw to a

vertical position.

This releases the locking mechanism.

- 7.) Lift straight up to remove.

2.4.6 Install a 1734-TOPS Base

- 1.) Position the base vertically above the installed units, such as an adapter, power supply, or existing module.
- 2.) Slide the base down, allowing the interlocking side pieces to engage the adjacent installed unit.
- 3.) Press firmly to seat the base on the DIN rail until the base snaps into place.
- 4.) Verify that the DIN-rail locking screw is in a horizontal, locked position before inserting an I/O module.

2.4.7 Remove a 1734-TOPS Base

To remove a wiring base from the DIN rail, you must remove the module installed to the right of the base.

- 1.) Squeeze the module locking mechanism of the module to the right of the base, pulling up to remove the module.
- 2.) Turn the orange locking screw to a vertical position to unlock the base from the DIN rail.
- 3.) Slide the base up to release it from its mating units.

Section 2.5 Field Wiring Connections

Consider the following when wiring your system:

General

- Power and input wiring must be in accordance with Class 1, Division 2 wiring methods, Article 501-4(b) of the National Electric Code, NFPA 70, and in accordance with the authority having jurisdiction.
- Use Belden™ 8761, or equivalent, shielded wire.
- To ensure optimum accuracy, limit overall cable impedance by keeping a cable as short as possible. Locate the module as close to input devices as the application permits.
- Digital and analog power must be supplied by an Isolated Secondary Limited Energy Low Voltage source.

Inputs

- The module provides loop power for analog inputs.

Grounding**Attention**

**USE SUPPLY WIRES SUITABLE FOR 10°C ABOVE
SURROUNDING AMBIENT**

**Attention**

**UTILISER DES FILS D’ALIMENTATION QUI CONVIENNENT A
UNE TEMPERATURE DE 10°C AU-DESSUS DE LA
TEMPERATURE AMBIANTE**

- This product is intended to be mounted to a well-grounded mounting surface such as a metal panel. Additional grounding connections from the module’s mounting tabs or DIN rail (if used) are not required unless the mounting surface cannot be grounded.
- Under normal conditions, the drain wire (shield) should be connected to the metal mounting panel (earth ground). Keep shield connection to earth ground as short as possible.
- Ground the shield drain wire at one end only. The typical location is as follows:
 - For grounded thermocouples or millivolt sensors, this is at the sensor end.
 - For insulated/ungrounded thermocouples, this is at the module end. Contact your sensor manufacturer for additional details.
- Refer to Industrial Automation Wiring and Grounding Guidelines, Allen-Bradley publication 1770-4.1, for additional information.

Noise Prevention

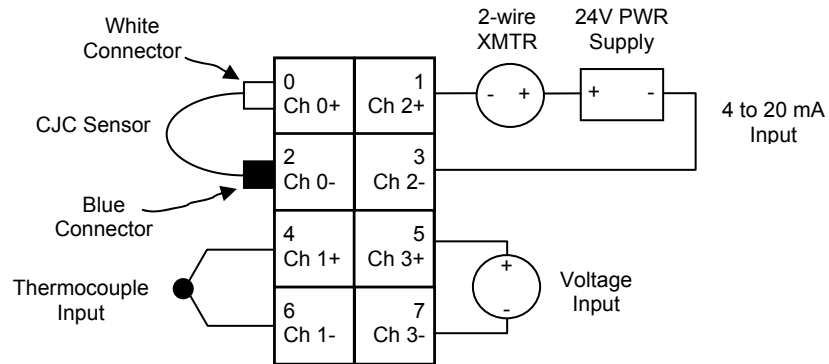
- Route field wiring away from any other wiring and as far as possible from sources of electrical noise, such as motors, transformers, contactors, and ac devices. As a general rule, allow at least 15.2 cm (6 in.) of separation for every 120V of power.
- Routing field wiring in a grounded conduit can reduce electrical noise.
- If field wiring must cross ac or power cables, ensure that they cross at right angles.
- If noise persists for a device, try grounding the opposite end of the cable shield or ground both ends of the shield.

2.5.1 Wiring Diagram

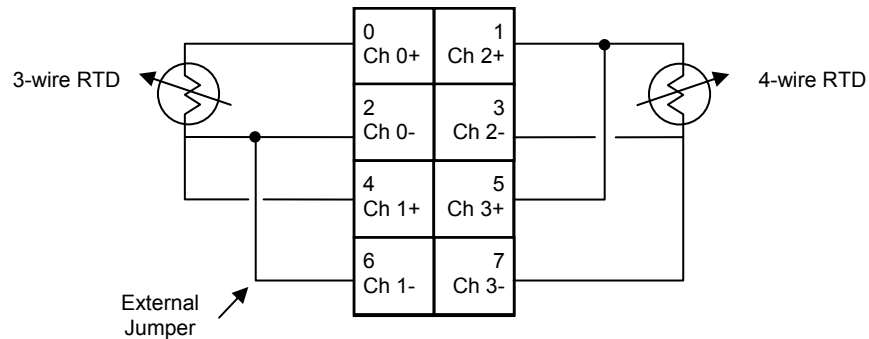
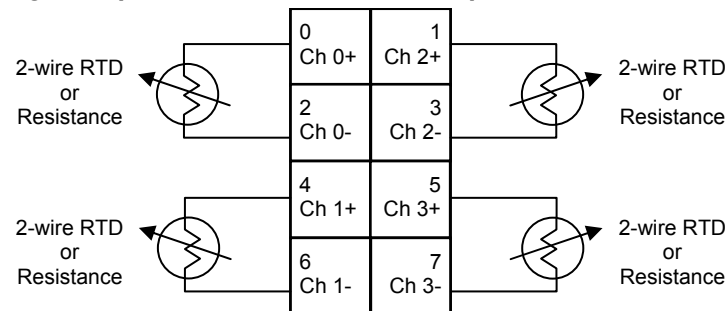
Refer to the following wiring diagrams for field wiring connections.

Table 2-1 (Terminal Block Pinout)

RTB Pin#	Usage	Usage	RTB Pin#
0	Ch 0+	Ch 2+	1
2	Ch 0-	Ch 2-	3
4	Ch 1+	Ch 3+	5
6	Ch 1-	Ch 3-	7

Figure 3 (Voltage, Current and Thermocouple)

Note: The CJC sensor shown in the diagram above can only be installed across terminals 0 and 2.

Figure 4 (Three, and Four Wire RTD)**Figure 5 (2-Wire RTD and Resistance)**

Note: The IF4U supports several input types and can be configured for one of the following input combinations:

- 4-channels Voltage + mV + Current
- 3-Channels Thermocouple
- 2-Channels 3/4-Wire RTD
- 4-Channels 2-Wire RTD/Resistance
- Or a combination of two or more input types listed above (Ex., 1 Channel of Thermocouple and 1 Channel of 3/4-wire RTD)

Chapter 3

Configuring the 1734sc-IF4U

Using RSLogix 5000

This chapter covers the following subjects:

- Things you should know
- About Communications
- Use Generic Profile
- Use AOP (Add On Profile)
- Module configuration
- Reading input data
- Module update time

Section 3.1 Introduction

This chapter will describe how to configure the IF4U module using RSLogix 5000 programming software.

Section 3.2 About Communications

The module produces and consumes data as follows:

IF4U Produce/Consume Data

Instance:	Description:												Total Size:			
100	Analog Only												16 Bytes RSL5K (Dnet 12 bytes)			
Bit	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
Analog data	Channel 0 Data - INT															
	Channel 1 Data - INT															
12 bytes	Channel 2 Data - INT															
0x00-0x0B	Channel 3 Data - INT															
	Status Byte for Channel 1								Status Byte for Channel 0							
	n/a	n/a	n/a	OC	OR	UR	n/a	CF	n/a	n/a	n/a	OC	OR	UR	n/a	CF
	Status Byte for Channel 3								Status Byte for Channel 2							
	n/a	n/a	n/a	OC	OR	UR	n/a	CF	n/a	n/a	n/a	OC	OR	UR	n/a	CF



Attention

The IF4U module is not compatible with the 1734-ADN, ADN(X), and PDN device net adapters and the 1734-APB profibus adapter.



Attention

The 1734sc-IF4U is not field upgradable.



Attention

The ControlNet adapter (1734-ACNR) has a maximum data transmit limit of 600 bytes. Therefore, the maximum number of 1734sc-IF4U modules that can be installed behind a ControlNet adapter is 14.

Section 3.3 Use Generic Profile

The generic point IO module profile can be used to represent the IF4U module within RSLogix 5000. The generic profile should be used for RSLogix 5000 versions 14 and older. Before the generic profile can be added to the IO configuration, the proper communication module needs to be added to the IO configuration first. Follow the procedure below to add a communication module to RSLogix 5000.

- 1.) Add the new local communication module to your project.
- 2.) Configure the local module, including:
 - a. Naming the module
 - b. Choosing a Communication Format
 - c. Setting the Revision level
 - d. Setting the module location as necessary such as the slot number for a 1756-CNB module
 - e. Choosing an Electronic Keying method
- 3.) Add the new remote module to your project, such as a 1734 Control Net adapter or Ethernet Adapter (i.e. 1734-ACNR or 1734-AENT, respectively).
- 4.) Configure the remote module similarly to the local module
- 5.) Download the configuration to the controller

Note: If you are using Control Net, you must schedule the network using “RSNetworks for Control Net” after adding the local and remote communication modules.

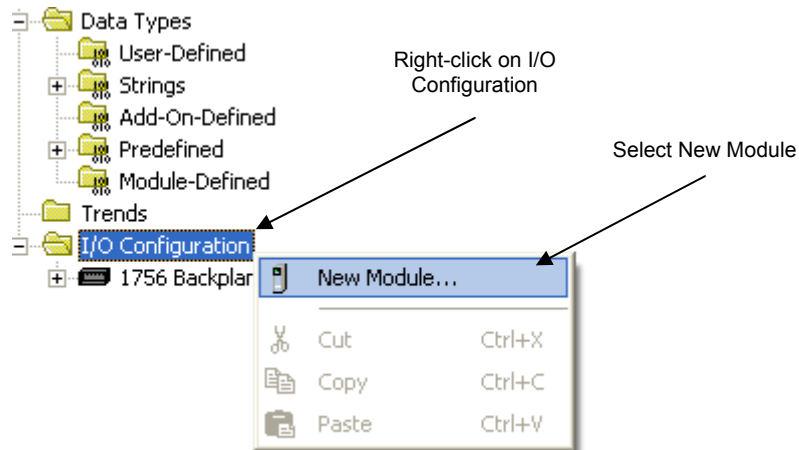
Note: When you create a new RSLogix 5000 project with the CompactLogix 1769-L32C or L35CR controller, The Controller Organizer creates a Control Net port in the local chassis. In this case, you don't need to add a separate local communication module.

Note: When you create a new RSLogix 5000 project with the CompactLogix 1769-L23E, 1769-L32E or L35E controller, The Controller Organizer creates a Ethernet port in the local chassis. In this case, you don't need to add a separate local communication module.

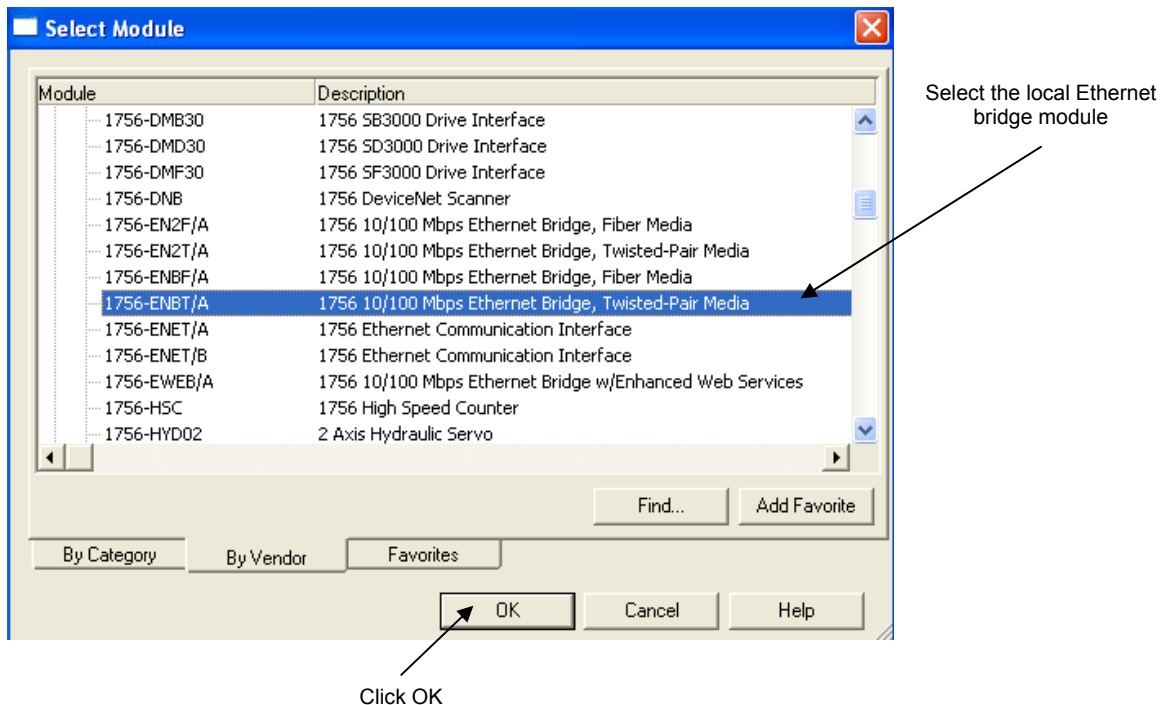
3.3.1 Add a Local Ethernet Bridge Module

After you have started RSLogix 5000 software and created a controller project, you can add Ethernet communication modules. A local Ethernet communication module is a module that resides in the same chassis as the controller.

- 1.) Select a New Module for the I/O Configuration.



- 2.) Select the module type from the Select Module Type pop-up. The example below uses a 1756-ENBT module.



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