

POINT I/O 2 Current Output and 2 Voltage Output Analog Modules

Catalog Numbers 1734-OE2C, 1734-OE2V, Series C

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Important User Information

Solid-state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid State Controls (Publication [SGI-1.1](#) available from your local Rockwell Automation sales office or online at <http://www.rockwellautomation.com/literature/>) describes some important differences between solid-state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid-state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.





In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

	WARNING: Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.
	ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard and recognize the consequences.
	SHOCK HAZARD: Labels may be on or inside the equipment (for example, drive or motor) to alert people that dangerous voltage may be present.
	BURN HAZARD: Labels may be on or inside the equipment (for example, drive or motor) to alert people that surfaces may reach dangerous temperatures.
IMPORTANT	Identifies information that is critical for successful application and understanding of the product.

Environment and Enclosure



ATTENTION: This equipment is intended for use in a Pollution Degree 2 industrial environment, in overvoltage Category II applications (as defined in IEC publication 60664-1), at altitudes up to 2000 meters without derating. This equipment is not intended for use in residential environments and may not provide adequate protection to radio communication services in such environments.

This equipment is considered Group 1, Class A industrial equipment according to IEC/CISPR Publication 11. Without appropriate precautions, there may be potential difficulties ensuring electromagnetic compatibility in other environments due to conducted as well as radiated disturbance.

This equipment is supplied as “open type” equipment. It must be mounted within an enclosure that is suitably designed for those specific environmental conditions that will be present and appropriately designed to prevent personal injury resulting from accessibility to live parts. The interior of the enclosure must be accessible only by the use of a tool. Subsequent sections of this publication may contain additional information regarding specific enclosure type ratings that are required to comply with certain product safety certifications. In addition to this publication, see:

- Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#), for additional installation requirements.
- NEMA Standard 250 and IEC 60529, as applicable, for explanations of the degrees of protection provided by enclosures.



Preventing Electrostatic Discharge



ATTENTION: This equipment is sensitive to electrostatic discharge, which can cause internal damage and affect normal operation. Follow these guidelines when you handle this equipment:

- Touch a grounded object to discharge potential static.
 - Wear an approved grounding wriststrap.
 - Do not touch connectors or pins on component boards.
 - Do not touch circuit components inside the equipment.
 - Use a static-safe workstation, if available.
 - Store the equipment in appropriate static-safe packaging when not in use.
-

North American Hazardous Location Approval

<p>The following information applies when operating this equipment in hazardous locations:</p>	<p>Informations sur l'utilisation de cet équipement en environnements dangereux:</p>
<p>Products marked "CL I, DIV 2, GP A, B, C, D" are suitable for use in Class I Division 2 Groups A, B, C, D, Hazardous Locations and nonhazardous locations only. Each product is supplied with markings on the rating nameplate indicating the hazardous location temperature code. When combining products within a system, the most adverse temperature code (lowest "T" number) may be used to help determine the overall temperature code of the system. Combinations of equipment in your system are subject to investigation by the local Authority Having Jurisdiction at the time of installation.</p>	<p>Les produits marqués "CL I, DIV 2, GP A, B, C, D" ne conviennent qu'à une utilisation en environnements de Classe I Division 2 Groupes A, B, C, D dangereux et non dangereux. Chaque produit est livré avec des marquages sur sa plaque d'identification qui indiquent le code de température pour les environnements dangereux. Lorsque plusieurs produits sont combinés dans un système, le code de température le plus défavorable (code de température le plus faible) peut être utilisé pour déterminer le code de température global du système. Les combinaisons d'équipements dans le système sont sujettes à inspection par les autorités locales qualifiées au moment de l'installation.</p>
<div style="display: flex; align-items: center;">  <div> <p>EXPLOSION HAZARD</p> <ul style="list-style-type: none"> Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous. Do not disconnect connections to this equipment unless power has been removed or the area is known to be nonhazardous. Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product. Substitution of components may impair suitability for Class I, Division 2. If this product contains batteries, they must only be changed in an area known to be nonhazardous. </div> </div>	<div style="display: flex; align-items: center;">  <div> <p>RISQUE D'EXPLOSION</p> <ul style="list-style-type: none"> Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher l'équipement. Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher les connecteurs. Fixer tous les connecteurs externes reliés à cet équipement à l'aide de vis, loquets coulissants, connecteurs filetés ou autres moyens fournis avec ce produit. La substitution de composants peut rendre cet équipement inadapté à une utilisation en environnement de Classe I, Division 2. S'assurer que l'environnement est classé non dangereux avant de changer les piles. </div> </div>

European Hazardous Location Approval

The following applies when the product bears the Ex Marking

This equipment is intended for use in potentially explosive atmospheres as defined by European Union Directive 2014/34/EU.

DEMKO certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of Category 3 equipment intended for use in Zone 2 potentially explosive atmospheres, given in Annex II to this Directive.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013, EN 60079-15:2010, reference certificate number DEMKO 04ATEX0330347X.



ATTENTION: This equipment is not resistant to sunlight or other sources of UV radiation.



WARNING: This equipment shall be mounted in an ATEX certified enclosure with a minimum ingress protection rating of at least IP54 (as defined in IEC/EN 60529) and used in an environment of not more than Pollution Degree 2 (as defined in IEC/EN 60664-1) when applied in Zone 2 environments. The enclosure must utilize a tool removable cover or door.

WARNING: This equipment shall be used within its specified ratings defined by Rockwell Automation.

WARNING: Provision shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 140% of the rated voltage when applied in Zone 2 environments.

WARNING: The secondary of a current transformer shall not be open-circuited when applied in Class I, Zone 2 environments.

WARNING: This equipment must be used only with ATEX certified Rockwell Automation backplanes

WARNING: Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product.

WARNING: Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous.

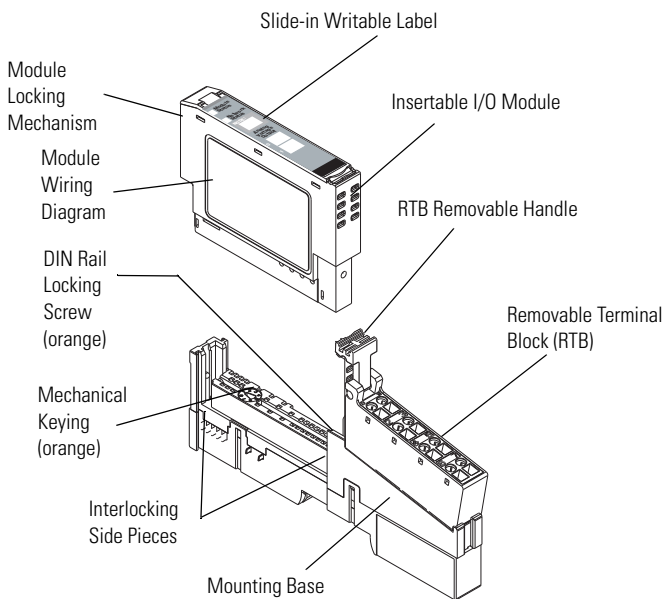
Before You Begin

You can use these Series C modules with DeviceNet and PROFIBUS adapters. If you are using RSLogix 5000 software, version 11 or higher, you can also use the Series C modules with ControlNet and Ethernet adapters.

Identify Module Components

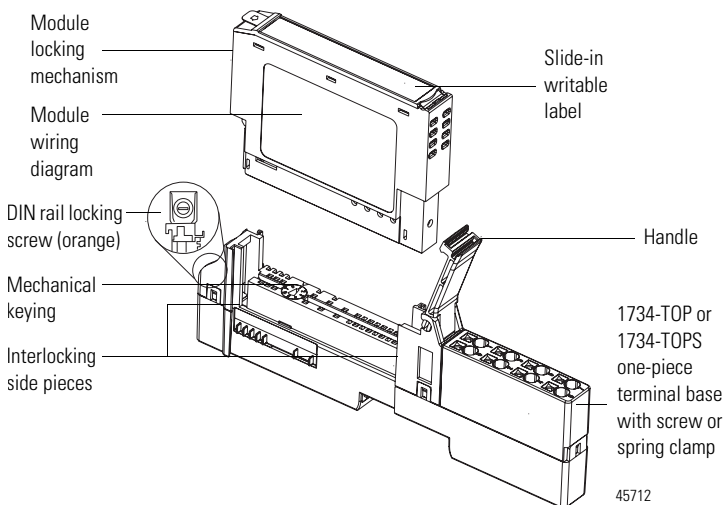
Use the figure to identify the external features of the modules.

Modules Mounted on Removable Terminal Block and Mounting Base



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The wiring base assembly includes terminal base, 1734-TB or 1734-TBS, which consists of mounting base, 1734-MB, and removable terminal block, 1734-RTB or 1734-RTBS.

Modules Mounted on 1734-TOP or 1734-TOPS One-piece Terminal Base**Install the Mounting Base**

To install the mounting base on the DIN rail (Allen-Bradley part number 199-DR1; 46277-3; EN50022), proceed as follows.



ATTENTION: This product is grounded through the DIN rail to chassis ground. Use zinc plated yellow-chromate steel DIN rail to assure proper grounding. The use of other DIN rail materials (for example, aluminum or plastic) that can corrode, oxidize, or are poor conductors, can result in improper or intermittent grounding. Secure DIN rail to mounting surface approximately every 200 mm (7.8 in.) and use end-anchors appropriately.

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1. Position the mounting base vertically above the installed units (adapter, power supply, or existing module).
2. Slide the mounting base down to make the interlocking side pieces 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.



ATTENTION: Do not discard the end cap. Use this end cap to cover the exposed interconnections on the last mounting base on the DIN rail. Failure to do so could result in equipment damage or injury from electric shock.

Install the Module



ATTENTION: When you insert or remove the module while backplane power is on, an electrical arc can occur. This could cause an explosion in hazardous location installations.

Be sure that power is removed or the area is nonhazardous before proceeding. Repeated electrical arcing causes excessive wear to contacts on both the module and its mating connector. Worn contacts may create electrical resistance that can affect module operation.

Install the module before or after base installation. Make sure that you:

- correctly keyed the mounting base before installing the module into the mounting base
- positioned the mounting base locking screw horizontal with reference to the base

To install the module proceed as follows.

1. Using a bladed screwdriver, rotate the keyswitch on the mounting base clockwise until the number required for the type of module you are installing 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 you have unlocked the locking mechanism.
3. Insert the module straight down into the mounting base and press to secure. The module will lock into place.

Install the Removable Terminal Block (RTB)

A removable terminal block comes with your wiring base assembly. To remove, pull up on the RTB handle. You can now remove the mounting base and replace as necessary without removing any of the wiring. To reinsert the removable terminal block, proceed as follows.

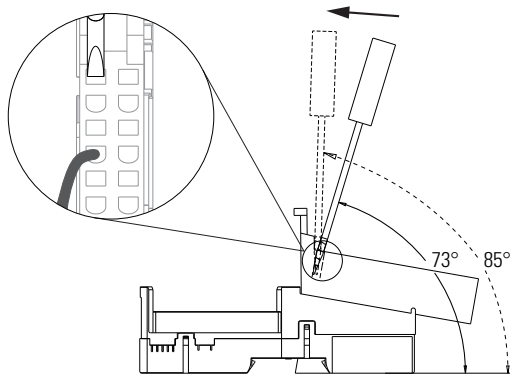
1. Insert the end opposite the handle into the base unit.
This end has a curved section that engages with the wiring base.
2. Rotate the terminal block into the wiring base until it locks itself in place.
3. If an I/O module is installed, snap the RTB handle into place on the module.



WARNING: When you connect or disconnect the Removable Terminal Block (RTB) with field side power applied, an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.



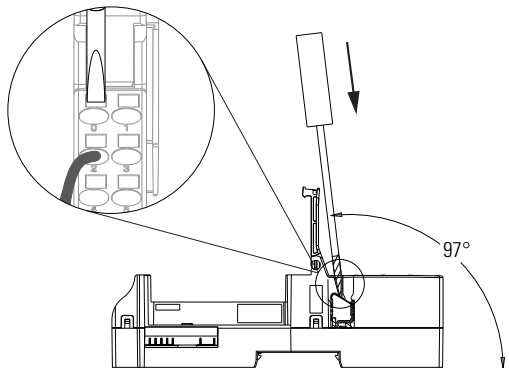
WARNING: For 1734-RTBS and 1734-RTB3S, to latch and unlatch the wire, insert a bladed screwdriver (catalog number 1492-N90 – 3 mm diameter blade) into the opening at approximately 73° (blade surface is parallel with top surface of the opening) and push up gently.



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WARNING: For 1734-TOPS and 1734-TOP3S, to latch and un-latch the wire, insert a bladed screwdriver (catalog number 1492-N90 – 3 mm diameter) into the opening at approximately 97° (blade surface is parallel with top surface of the opening) and press in (do not push up or down).



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.



WARNING: When you connect or disconnect the Removable Terminal Block (RTB) with field side power applied, an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

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3. Press on the module lock on the top of the module.
 4. Pull on the I/O module to remove from the base.



ATTENTION: When you insert or remove the module while backplane power is on, an electrical arc can occur. This could cause an explosion in hazardous location installations.

Be sure that power is removed or the area is nonhazardous before proceeding. Repeated electrical arcing causes excessive wear to contacts on both the module and its mating connector. Worn contacts may create electrical resistance that can affect module operation.

-
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.

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Communicate with Your Module

POINT I/O modules send (consume) and receive (produce) I/O messages. You map these messages into the processor's memory.

These modules produce 2 bytes of input data (scanner Rx) (fault status). These modules consume 4 bytes of output data (scanner Tx).

Message size: 2 Bytes

	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
Produces (scanner Rx)	High Byte - Channel 1 Status								Low Byte - Channel 0 Status							
	Not used				H C A	LC A	C M	C F	Not used				H C A	L C A	C M	C F

Where:

CF = Channel Fault status; 0 = no error, 1 = fault

CM = Calibration Mode; 0 = normal, 1 = calibration mode

HCA = High Clamp Alarm; 0 = no error, 1 = fault

LCA = Low Clamp Alarm; 0 = no error, 1 = fault

Message size: 4 bytes

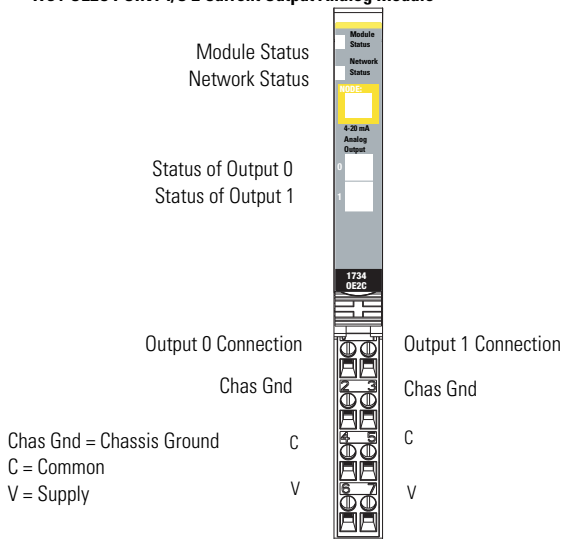
	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
Consumes (scanner Tx)	Output Channel 0 High Byte								Output Channel 0 Low Byte							
	Output Channel 1 High Byte								Output Channel 1 Low Byte							

Wire the Module



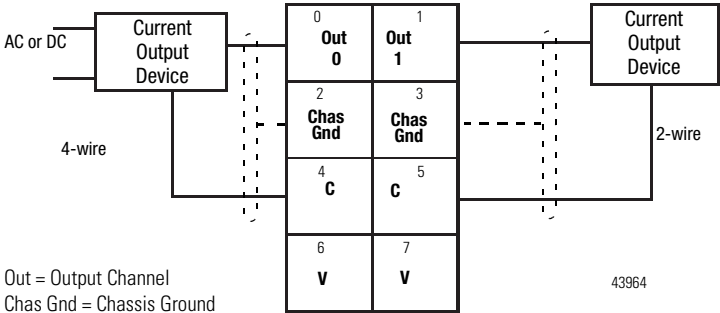
WARNING: If you connect or disconnect wiring while the field-side power is on, an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

1734-OE2C POINT I/O 2 Current Output Analog Module



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1734-0E2C POINT I/O 2 Current Output Analog Module



Out = Output Channel
 Chas Gnd = Chassis Ground
 C = Common

V = 24V DC, nominal

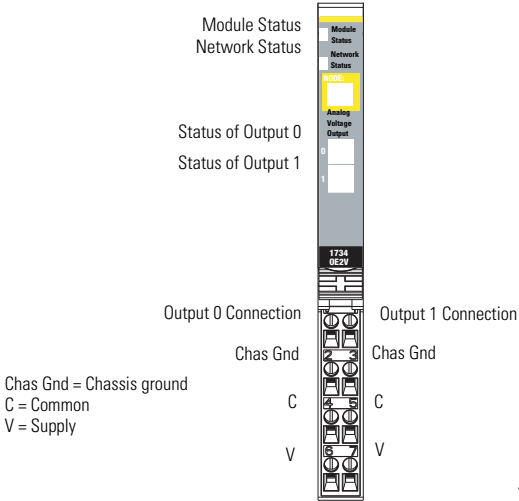
Note: Not protected, 0.3 A maximum

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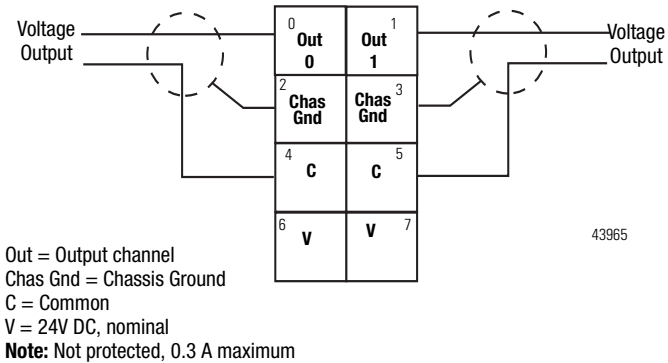
Channel	Current Output	Chassis Ground	Common	Supply
0	0	2	4	6
1	1	3	5	7

24V DC power is provided by the internal field power bus.

1734-OE2V POINT I/O 2 Voltage Output Analog Module



1734-OE2V POINT I/O 2 Voltage Output Analog Module



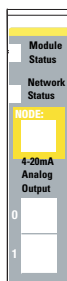
Channel	Voltage Output	Chassis Ground	Common	Supply
0	0	2	4	6
1	1	3	5	7

24V DC power is provided by the internal field power bus.

Troubleshoot with Indicators

Use the status indicators and tables to troubleshoot your module.

1734-0E2C POINT I/O 2 Current Output Analog Module



Module Status

Network Status

Status of Output 0

Status of Output 1

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1734-0E2V POINT I/O 2 Voltage Output Analog Module



Module Status

Network Status

Status of Output 0

Status of Output 1

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Module Status

Indication	Probable Cause
Off	No power is applied to device.
Green	Device is operating normally.
Flashing Green	Device needs commissioning due to configuration missing, incomplete, or incorrect.
Flashing Red	Recoverable fault is present.
Red	Unrecoverable fault may require device replacement.
Flashing Red/Green	Device is in self-test.

Network Status

Indication	Probable Cause
Off	Device is not online. - Device has not completed dup_MAC_id test. - Device not powered. Check module status indicator.
Flashing Green	Device is online but has no connections in the established state.
Green	Device is online and has connections in the established state.
Flashing Red	One or more I/O connections are in timed-out state.
Red	Critical link failure is present with failed communication device. Device detected error that prevents it communicating on the network.
Flashing Red/Green	Communication faulted device is present. The device detected a network access error and is in communication faulted state. Device received and accepted an Identify Communication Faulted Request - long protocol message.

Channel Status

Indication	Probable Cause 1734-OE2C	Probable Cause 1734-OE2V
Off	Module is in CAL mode.	
Green	Normal operation is present with channel actively controlling outputs.	

Channel Status

Indication	Probable Cause 1734-0E2C	Probable Cause 1734-0E2V
Flashing Green	Channel is being calibrated.	
Flashing Red	Open wire or no field power is present.	A low or high clamp is present.
Red	—	No field power is present.

Placing Series C Analog Current Output Modules

Always install modules in accordance with their specified operating temperature ratings, as listed in [Environmental Specifications on page 20](#), and provide a minimum of 2.54 cm (1.0 in.) clearance above the modules.

Specifications**Output Specifications**

Output Specifications	1734-0E2C	1734-0E2V
Number of Outputs	2 single-ended, non-isolated, current	2 single-ended, non-isolated, voltage
Resolution	13 bits - over 0-21mA 2.5 μ A/cnt (average value - typical range: 2.3...2.7 μ A/cnt)	14 bits (13 plus sign) 1.28mV/cnt in unipolar or bipolar mode
Output Current	0 mA output until communication established 4...20 mA user configurable 0...20 mA user configurable	—
Output Voltage	—	0V output until communication established 0...10V (user configurable) (-0.0V under, +0.5V over) \pm 10V user configurable (-0.5V under, +0.5V over)
Absolute Accuracy ⁽¹⁾	0.1% full scale @ 25°C	
Accuracy Drift w/Temp.	30ppm/°C	5ppm/°C
Step Response to 63% of FS	24 μ s	

Output Specifications

Output Specifications	1734-0E2C	1734-0E2V
Current Load on Voltage Output	—	3mA
Resistive Load on Current Output	0...750Ω	—
Conversion Type	Digital to analog converter	
Conversion Rate	16μs	20μs
Data Format	Signed Integer	
Calibration	Factory Calibrated	

⁽¹⁾ Includes offset, gain, non-linearity and repeatability error terms.

General Specifications

Attribute	1734-0E2C	1734-0E2V
Terminal base	1734-TB, 1734-TBS, 1734-TB3, 1734-TB3S, 1734-TOP, or 1734-TOPS wiring base assembly	
POINTBus Current, max	75 mA @5V DC	
Power Dissipation, max	750 Ω load on each output - 1.23 W 0Ω load on each output - 1.83 W	1.0 W
Thermal Dissipation, max	750Ω load on each output - 4.19 BTU/hr 0Ω load on each output - 6.24 BTU/hr	3.4BTU/hr
Isolation Voltage (Continuous-voltage Withstand Rating)	50V Continuous Tested to withstand 2200V DC for 60 s No isolation between individual channels	
External DC power Supply Voltage, nom Voltage Range Supply Current	24V DC 10...28.8V DC 70 mA @ 24V DC (including outputs @20 mA)	24V DC 10...28.8V DC 35 mA @ 24V DC (including outputs @3 mA)
Indicators, logic side	1 green/red – module status 1 green/red – network status 2 green/red – output status	
Keyswitch Position	4	
Dimensions	H x W x L 56 x 12 x 75.5 mm (2.21 x 0.47 x 2.97 in)	

General Specifications

Attribute	1734-0E2C	1734-0E2V
Enclosure Type Rating	None (open-style)	
Wire Size	0.25... 2.5 mm ² (22...14 AWG) solid or stranded copper wire rated at 75 °C (167 °F) or greater 1.2 mm (3/64 in.) insulation max	
Wire Category ⁽¹⁾	1 - on signal ports	
Terminal Base Screw Torque	0.6 Nm (7 lb-in)	
Weight, approx	36 g (1.27 oz)	
North American temp code	T4A	
IEC temp code	T4	

⁽¹⁾ Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).


Environmental Specifications

Attribute	1734-0E2C	1734-0E2V
Operational Temperature	IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -20...55 °C (-4...131 °F)	
Temperature, surrounding air, max	55 °C (131 °F)	
Storage Temperature	IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock): -40...85 °C (-40...185 °F)	
Relative Humidity	IEC 60068-2-30 (Test Db, Unpackaged Nonoperating Damp Heat): 5...95% noncondensing	
Vibration	IEC60068-2-6 (Test Fc, Operating) 5 g @ 10...500 Hz	
Shock Operating Non-Operating	IEC 60068-2-27 (Test Ea, Unpackaged Shock) 30 g 50 g	
Emissions	CISPR 11: Group 1, Class A	
ESD Immunity	IEC6100-4-2 6 kV contact discharges 8 kV air discharges	

Environmental Specifications

Attribute	1734-0E2C	1734-0E2V
Radiated RF Immunity	IEC 61000-4-3: 10 V/m with 1kHz sine-wave 80%AM from 80 MHz...2700 MHz 10 V/m with 200 Hz 50% Pulse 100%AM at 900 MHz 10 V/m with 200 Hz 50% Pulse 100%AM at 1890 MHz	
EFT/B Immunity	IEC 61000-4-4: ±3 kV at 5 kHz on signal ports	
Surge Transient Immunity	IEC 61000-4-5: ±2 kV line-earth(CM) on shielded ports	
Conducted RF Immunity	IEC61000-4-6 10 Vrms with 1 kHz sine-wave 80%AM from 150 kHz to 80 MHz	

Certifications

Certification (when product is marked) ⁽¹⁾	Value
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810.
CE	European Union 2014/30/EU EMC Directive, compliant with: EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions
EAC	Russian Customs Union TR CU 020/2011 EMC Technical Regulation
Ex 	European Union 2014/34/EU ATEX Directive, compliant with: EN60079-15: 2010; Potentially Explosive Atmospheres, Protection "n" EN60079-0:2012+A11: 2013; General Requirements II 3 G Ex nA IIC T4 Gc DEMKO 04 ATEX 0330347X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 3
RCM	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions

⁽¹⁾ See the Product Certification link at <http://www.rockwellautomation.com/products/certification/> for Declaration of Conformity, Certificates, and other certification details.

Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products. At <http://www.rockwellautomation.com/support/>, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration and troubleshooting, we offer TechConnect support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://www.rockwellautomation.com/support/>.

Installation Assistance

If you experience a problem within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your product up and running.

United States or Canada	1.440.646.3434
Outside United States or Canada	Use the Worldwide Locator at http://www.rockwellautomation.com/support/americas/phone_en.html , or contact your local Rockwell Automation representative.

New Product Satisfaction Return

Rockwell Automation tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

United States	Contact your distributor. You must provide a Customer Support case number (call the phone number above to obtain one) to your distributor to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

Documentation Feedback

Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete this form, publication [RA-DU002](#), available at <http://www.rockwellautomation.com/literature/>.

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Rockwell Automation maintains current product environmental information on its website at <http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page>.

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