

## 1715 Series I/O System Adapter, Digital, and Analog Modules

Bulletin Number 1715



**ATTENTION:** Read this document and the documents listed in the Additional Resources section about installation, configuration and operation of this equipment before you install, configure, operate or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice. If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

注意：在安装、配置、操作和维护本产品前，请阅读本文档以及“其他资源”部分列出的有关设备安装、配置和操作的相应文档。除了所有适用规范、法律和标准的相关要求之外，用户还必须熟悉安装和接线说明。

安装、调整、投运、使用、组装、拆卸和维护等各项操作必须由经过适当训练的专业人员按照适用的操作规范实施。

如果未按照制造商指定的方式使用该设备，则可能会损害设备提供的保护。

**ATENCIÓN:** Antes de instalar, configurar, poner en funcionamiento o realizar el mantenimiento de este producto, lea este documento y los documentos listados en la sección Recursos adicionales acerca de la instalación, configuración y operación de este equipo. Los usuarios deben familiarizarse con las instrucciones de instalación y cableado y con los requisitos de todos los códigos, leyes y estándares vigentes.

El personal debidamente capacitado debe realizar las actividades relacionadas a la instalación, ajustes, puesta en servicio, uso, ensamblaje, desensamblaje y mantenimiento de conformidad con el código de práctica aplicable. Si este equipo se usa de una manera no especificada por el fabricante, la protección provista por el equipo puede resultar afectada.

**ATENÇÃO:** Leia este e os demais documentos sobre instalação, configuração e operação do equipamento que estão na seção Recursos adicionais antes de instalar, configurar, operar ou manter este produto. Os usuários devem se familiarizar com as instruções de instalação e fiação além das especificações para todos os códigos, leis e normas aplicáveis.

É necessário que as atividades, incluindo instalação, ajustes, colocação em serviço, utilização, montagem, desmontagem e manutenção sejam realizadas por pessoal qualificado e especializado, de acordo com o código de prática aplicável.

Caso este equipamento seja utilizado de maneira não estabelecida pelo fabricante, a proteção fornecida pelo equipamento pode ficar prejudicada.

**ВНИМАНИЕ:** Перед тем как устанавливать, настраивать, эксплуатировать или обслуживать данное оборудование, прочитайте этот документ и документы, перечисленные в разделе «Дополнительные ресурсы». В этих документах изложены сведения об установке, настройке и эксплуатации данного оборудования. Пользователи обязаны ознакомиться с инструкциями по установке и прокладке соединений, а также с требованиями всех применимых норм, законов и стандартов.

Все действия, включая установку, наладку, ввод в эксплуатацию, использование, сборку, разборку и техническое обслуживание, должны выполняться обученным персоналом в соответствии с применимыми нормами и правилами.

Если оборудование используется не предусмотренным производителем образом, защита оборудования может быть нарушена.

注意：本製品を設置、構成、稼働または保守する前に、本書および本機器の設置、設定、操作についての参考資料の該当箇所に記載されている文書に目を通してください。ユーザは、すべての該当する条例、法律、規格の要件に加えて、設置および配線の手順に習熟している必要があります。

設置調整、運転の開始、使用、組立て、解体、保守を含む諸作業は、該当する実施規則に従って訓練を受けた適切な作業員が実行する必要があります。

本機器が製造メーカーにより指定されていない方法で使用されている場合、機器により提供されている保護が損なわれる恐れがあります。

**ACHTUNG:** Lesen Sie dieses Dokument und die im Abschnitt „Weitere Informationen“ aufgeführten Dokumente, die Informationen zu Installation, Konfiguration und Bedienung dieses Produkts enthalten, bevor Sie dieses Produkt installieren, konfigurieren, bedienen oder warten. Anwender müssen sich neben den Bestimmungen aller anwendbaren Vorschriften, Gesetze und Normen zusätzlich mit den Installations- und Verdrahtungsanweisungen vertraut machen.

Arbeiten im Rahmen der Installation, Anpassung, Inbetriebnahme, Verwendung, Montage, Demontage oder Instandhaltung dürfen nur durch ausreichend geschulte Mitarbeiter und in Übereinstimmung mit den anwendbaren Ausführungsvorschriften vorgenommen werden.

Wenn das Gerät in einer Weise verwendet wird, die vom Hersteller nicht vorgesehen ist, kann die Schutzfunktion beeinträchtigt sein.

**ATTENTION :** Lisez ce document et les documents listés dans la section Ressources complémentaires relatifs à l'installation, la configuration et le fonctionnement de cet équipement avant d'installer, configurer, utiliser ou entretenir ce produit. Les utilisateurs doivent se familiariser avec les instructions d'installation et de câblage en plus des exigences relatives aux codes, lois et normes en vigueur. Les activités relatives à l'installation, le réglage, la mise en service, l'utilisation, l'assemblage, le démontage et l'entretien doivent être réalisées par des personnes formées selon le code de pratique en vigueur.

Si cet équipement est utilisé d'une façon qui n'a pas été définie par le fabricant, la protection fournie par l'équipement peut être compromise.

주의: 본 제품 설치, 설정, 작동 또는 유지 보수하기 전에 본 문서를 포함하여 설치, 설정 및 작동에 관한 참고 자료 섹션의 문서들을 반드시 읽고 숙지하십시오. 사용자는 모든 관련 규정, 법규 및 표준에서 요구하는 사항에 대해 반드시 설치 및 배선 지침을 숙지해야 합니다.

설치, 조정, 가동, 사용, 조립, 분해, 유지보수 등 모든 작업은 관련 규정에 따라 적절한 교육을 받은 사용자를 통해서만 수행해야 합니다.

본 장비를 제조사가 명시하지 않은 방법으로 사용하면 장비의 보호 기능이 손상될 수 있습니다.

**ATTENZIONE:** Prima di installare, configurare ed utilizzare il prodotto, o effettuare interventi di manutenzione su di esso, leggere il presente documento ed i documenti elencati nella sezione "Altre risorse", riguardanti l'installazione. La configurazione ed il funzionamento dell'apparecchiatura. Gli utenti devono leggere e comprendere le istruzioni di installazione e cablaggio, oltre ai requisiti previsti dalle leggi, codici e standard applicabili.

Le attività come installazione, regolazioni, utilizzo, assemblaggio, disassemblaggio e manutenzione devono essere svolte da personale adeguatamente addestrato, nel rispetto delle procedure previste.

Qualora l'apparecchio venga utilizzato con modalità diverse da quanto previsto dal produttore, la sua funzione di protezione potrebbe venire compromessa.

**DIKKAT:** Bu ürünün kurulumu, yapılandırılması, işletilmesi veya bakımı öncesinde bu dokümanı ve bu ekipmanın kurulumu, yapılandırılması ve işletimi ile ilgili ilave Kaynaklar bölümünde yer listelenmiş dokümanları okuyun. Kullanıcılar yürürlükteki tüm yönetmelikler, yasalar ve standartların gereksinimlerine ek olarak kurulum ve kablolama talimatlarını da öğrenmek zorundadır.

Kurulum, ayarlama, hizmete alma, kullanma, parçaları birleştirme, parçaları sökme ve bakım gibi aktifitelev sadece uygun eğitimli almış kişiler tarafından yürürlükteki uygulama yönetmeliklerine uygun şekilde yapılabilir.

Bu ekipman üretici tarafından belirlenmiş amacın dışında kullanılırsa, ekipman tarafından sağlanan koruma bozulabilir.

注意事項：在安装、設定、操作或維護本產品前，請先閱讀此文件以及列於「其他資源」章節中有關安裝、設定與操作此設備的文件。使用者必須熟悉安裝和配線指示，並符合所有法規、法律和標準要求。

包括安裝、調整、交付使用、使用、組裝、拆卸和維護等動作都必須交由已經過適當訓練的人員進行，以符合適用的實作法規。

如果將設備用於非製造商指定的用途時，可能會造成設備所提供的保護功能受損。

**POZOR:** Než začnete instalovat, konfigurovat či provozovat tento výrobek nebo provádět jeho údržbu, přečtěte si tento dokument a dokumenty uvedené v části Dodatečné zdroje ohledně instalace, konfigurace a provozu tohoto zařízení. Uživatelé se musejí vedle požadavků všech relevantních vyhlášek, zákonů a norem nutně seznámit také s pokyny pro instalaci a elektrické zapojení.

Činnosti zahrnující instalaci, nastavení, uvedení do provozu, užívání, montáž, demontáž a údržbu musí vykonávat vhodně proškolený personál v souladu s příslušnými prováděcími předpisy.

Pokud se toto zařízení používá způsobem neodpovídajícím specifikaci výrobce, může být narušena ochrana, kterou toto zařízení poskytuje.

**UWAGA:** Przed instalacją, konfiguracją, użytkowaniem lub konserwacją tego produktu należy przeczytać niniejszy dokument oraz wszystkie dokumenty wymienione w sekcji Dodatkowe źródła omawiającej instalację, konfigurację i procedury użytkowania tego urządzenia. Użytkownicy mają obowiązek zapoznać się z instrukcjami dotyczącymi instalacji oraz oprzewodowania, jak również z obowiązującymi cymy kodeksami, prawem i normami.

Działania obejmujące ce instalację, regulację, przekazanie do użytkowania, użytkowanie, montaż, demontaż oraz konserwację muszą być wykonywane przez odpowiednio przeszkolony personel zgodnie z obowiązującymi cymy kodeksem postępowania.

Jeśli urządzenie jest użytkowane w sposób inny niż określony przez producenta, zabezpieczenie zapewniane przez urządzenie może zostać ograniczone.

**OBBS:** Läs detta dokument samt dokumentet, som står listat i avsnittet Övriga resurser, om installation, konfiguration och drift av denna utrustning innan du installerar, konfigurerar eller börjar använda eller utföra underhållsarbete på produkten. Användare måste bekanta sig med instruktioner för installation och kabeldragning, förutom krav enligt gällande koder, lagar och standarder.

Åtgärder som installation, justering, service, användning, montering, demontering och underhållsarbete måste utföras av personal med lämplig utbildning enligt lämpligt bruk.

Om denna utrustning används på ett sätt som inte anges av tillverkaren kan det hända att utrustningens skyddsanordningar försätts ur funktion.

**LET OP:** Lees dit document en de documenten die genoemd worden in de paragraaf Aanvullende informatie over de installatie, configuratie en bediening van deze apparatuur voordat u dit product installeert, configureert, bedient of onderhoudt. Gebruikers moeten zich vertrouwd maken met de installatie en de bedrijfsinstructies, naast de vereisten van alle toepasselijke regels, wetten en normen.

Activiteiten zoals het installeren, afstellen, in gebruik stellen, gebruiken, monteren, demonteren en het uitvoeren van onderhoud mogen uitsluitend worden uitgevoerd door hiervoor opgeleid personeel en in overeenstemming met de geldende praktijkregels.

Indien de apparatuur wordt gebruikt op een wijze die niet is gespecificeerd door de fabrikant, dan bestaat het gevaar dat de beveiliging van de apparatuur niet goed werkt.

## Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

Topic	Page
Updated European and United Kingdom Hazardous Location Approval	2
Updated ATEX/UKCA and IECEx Certification	3

Rockwell Automation recognizes that some of the terms that are currently used in our industry and in this publication are not in alignment with the movement toward inclusive language in technology. We are proactively collaborating with industry peers to find alternatives to such terms and making changes to our products and content. Please excuse the use of such terms in our content while we implement these changes.



### ATTENTION:

- Before installing, configuring, operating, or maintaining this product, read this document and the documents that are listed in the Additional Resources section for installing, configuring, or operating equipment. Users should familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.
- Installation, adjustments, putting into service, use, assembly, disassembly, and maintenance shall be carried out by suitably trained personnel in accordance with applicable code of practice. In case of malfunction or damage, no attempts at repair should be made. The module should be returned to the manufacturer for repair. Do not dismantle the module.
- If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- Digital and Analog I/O are certified for use only within surrounding air temperature range of -25...+60 °C (-13...+140 °F). The adapter is certified for use only within surrounding air temperature range of -25...+60 °C (-13...+140 °F). The equipment must not be used outside its range.
- 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 [rok.auto/literature](http://rok.auto/literature) describes some important differences between solid state equipment and hard-wired electromechanical devices.

### IMPORTANT

Any illustrations, charts, sample programs, and layout examples shown in this publication are intended solely for purposes of example. Since there are many variables and requirements associated with any particular installation, Rockwell Automation does not assume responsibility or liability for actual use based upon the examples that are shown in this publication.

## North American Hazardous Location Approval

The following information applies when operating this equipment in hazardous locations:

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.



### WARNING: EXPLOSION HAZARD

- 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 be changed only in an area that is known to be nonhazardous

Informations sur l'utilisation de cet équipement en environnements dangereux:

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.



### WARNING: RISQUE D'EXPLOSION

- 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 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

## 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 60664-1), at altitudes up to 2000m (6562ft) without derating.

This equipment is considered Group 1, Class A industrial equipment according to IEC/CISPR II. Without appropriate precautions, there may be difficulties with electromagnetic compatibility in residential and other environments due to conducted and radiated disturbances.

This equipment is supplied as open-type equipment for indoor use. It must be vertically 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 the following:

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

## European and United Kingdom Hazardous Location Approval

The following applies to products marked  II 3 G: Such modules:

- Are Equipment Group II, Equipment Category 3, and comply with the Essential Health and Safety Requirements relating to the design and construction of such equipment given in Annex II to directive 2014/34/EU and UK directive 2016 No. 1107. See the CE and UKCA Declaration of Conformity at [rok.auto/certifications](http://rok.auto/certifications) for details. The type of protection used is Ex ec IIC T4 Gc according to IEC/EN 60079-0, Explosive atmospheres – Part 0: Equipment – General requirements and IEC/EN 60079-7, Explosive atmospheres – Part 7: Equipment protection by increased safety "e". The specific temperature code is documented in 1715 Redundant I/O System Technical Specifications, publication [1715-TD001](#), and must be verified by the installer by comparing it with the temperature code marked on the product.
- Are intended for use in areas in which explosive atmospheres caused by gases, vapours, mists, or air or dust mixtures are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification according to ATEX directive 2014/34/EU and UK directive 2016 No. 1107.

**WARNING:** Special Conditions for Safe Use:

- All Models: The ambient temperature range is -25...+60 °C (-13...+140 °F).
- Subject devices are to be installed in a tool-only accessible enclosure that provides a degree of protection not less than IP54 in accordance with IEC/EN60079-0, Explosive atmospheres – Part 0: Equipment – General requirements and IEC/EN 60079-7, Explosive atmospheres – Part 7: Equipment protection by increased safety “e”. Enclosure is to be marked with the following: “Warning – Do not open when energized”. After installation of subject devices into the enclosure, access to termination compartments shall be dimensioned so that conductors can be readily connected. Grounding conductor should have a minimum cross sectional area of 3.31 mm<sup>2</sup> (12 AWG).
- Subject devices are for use in an area of not more than pollution degree 2 in accordance with IEC 60664-1.
- Subject devices are to use conductors with a minimum conductor temperature rating of 85 °C (185 °F).
- Subject devices are to be installed in the vertical orientation only

**AVERTISSEMENT:** Conditions Spéciales Pour une Utilisation Sûre:

- Pour tous les modèles : la plage de température est de -25...60 °C (-13...140 °F).
- Les dispositifs concernés doivent être installés dans une enceinte certifiée ATEX/CEIEx, IP54, accessible à l'aide d'un outil et qui a été évaluée conforme aux exigences des normes EN 60079-0 + A11, EN 60079-7: 2010 et CEI 60079-0: Edition 6, CEI 60079-7: Edition 4. Le marquage suivant doit être apposé sur l'enceinte : « Avertissement – Ne pas ouvrir sous tension ». Après l'installation des dispositifs concernés dans l'enceinte, l'accès aux compartiments de raccordement sera dimensionné de façon à faciliter le raccordement des conducteurs. Le conducteur de mise à la terre devra avoir une section minimale de 3,31 mm<sup>2</sup> (12 AWG).
- Les dispositifs concernés sont utilisables dans un environnement présentant un degré de pollution 2 au maximum conformément à la norme CEI 60664-1.
- Les dispositifs concernés doivent utiliser des conducteurs avec une température nominale minimum de 85 °C (185 °F).
- Les dispositifs concernés doivent être installés verticalement uniquement.

**ATTENTION:** Do not install this product until you read the documentation in your local language. Go to [rok.auto/literature](http://rok.auto/literature) or contact your local sales office or Rockwell Automation representative**ATENÇÃO:** Não instale este produto antes de ler os documentos em sua língua. Clique [rok.auto/literature](http://rok.auto/literature) ou entre em contato com o escritório ou representante da Rockwell Automation regional.**ATTENTION:** N'installez pas ce produit tant que vous n'avez pas lu la documentation dans votre langue locale. Rendez-vous sur le site [rok.auto/literature](http://rok.auto/literature) ou contactez votre agence commerciale ou votre représentant Rockwell Automation local.**ATTENZIONE:** Non installare questo prodotto senza prima avere letto la documentazione nella propria lingua. Consultare la pagina web [rok.auto/literature](http://rok.auto/literature) oppure contattare l'ufficio commerciale o il rappresentante Rockwell Automation di zona.**ACHTUNG:** Bitte installieren Sie dieses Produkt erst, nachdem Sie sich die Produktdokumentation in ihrer jeweiligen Sprache durchgelesen haben. Gehen Sie zu [rok.auto/literature](http://rok.auto/literature) oder nehmen Sie Kontakt mit ihrem lokalen Vertriebsbüro bzw.**ATENCIÓN:** No instale este producto antes de leer los documentos en su idioma. Para hacerlo, haga clic en [rok.auto/literature](http://rok.auto/literature) o póngase en contacto con su oficina o representante de Rockwell Automation regional.**注意:** 各国語版の資料をお読みになるまでは、この製品を取付けないでください。資料を入手するには、[rok.auto/literature](http://rok.auto/literature) にアクセスするか、ロックウェル・オートメーションまたは販売代理店までご連絡ください。**주의:** 반드시 해당 국가의 언어로 본 문서를 숙지한 후 이 제품을 설치하십시오. [rok.auto/literature](http://rok.auto/literature) 를 방문하거나 해당 국가의 대리점 또는 지사에 연락하시기 바랍니다.**请注意:** 在您阅读当地语言版的文档之前不要安装本产品。请登录 [rok.auto/literature](http://rok.auto/literature) 或者联系您的本地办公室或洛克韦尔自动化销售代表获取本文档**ATEX/UKCA and IECEx Certification**

ATEX/UKCA certification: Ex ec IIC T4 Gc

ATEX certificate number: 11 ATEX 7928686X

UKCA certificate number: UL22UKEX2512X

IECEx certification:  II 3G Ex ec IIC T4 Gc

IECEx certificate number: IECEx UL 15.0032X

The ambient temperature range is -25...+60 °C (-13...+140 °F) for all models.

**ATTENTION:** For the 1715-0B8DE Digital Output Termination Assemblies:

- For cULus, CE (ATEX), UKCA-Ex, and IECEx approved installations; the field power must be supplied by an isolating source. The field power must be wired with a minimum of 0.82mm<sup>2</sup> (18 AWG) wire. A fuse-rated minimum 32V DC, maximum 5 A, shall be installed in series with the field power terminals.
- A fuse rated minimum 32V DC, maximum 5A for an input of 0-28.3V and a maximum fuse current rating of 100V for an input of 28.3-42.4V, shall be installed in series with the field power terminals on model 1715-0B8DE Digital Output Module or equivalent.
- SK1 Port for Modules 1715-AENTR. “For maintenance only when installed in a Hazardous Location. Power must be disconnected or area is known to be free of ignitable concentrations of flammable gases or vapors when used”.

**ATTENTION:** Pour les ensembles de raccordement de sortie TOR 1715-0B8DE:

- Pour les installations certifiées cULus, CE (ATEX), UKCA, et CEIEx, l'alimentation de terrain doit être fournie par une source isolée. L'alimentation de terrain doit être câblée avec des conducteurs ayant une section minimale de 0,82mm<sup>2</sup> (18 AWG). Un fusible normalisé 32 V c.c. minimum, 5 A maximum sera installé en série avec les bornes de l'alimentation de terrain.
- Un fusible calibré à 32 V c.c. minimum, 5 A maximum pour une entrée 0-28,3 V et calibré à 100V au maximum pour une entrée 28,3-42,4 V, sera installé en série avec les bornes d'alimentation de terrain sur le module de sortie TOR modèle 1715-0B8DE » ou équivalent.
- Port SK1 pour les modules 1715-AENTR. « Pour la maintenance uniquement lorsqu'installé en environnement dangereux. L'alimentation doit être coupée ou la zone exempte de concentrations de gaz ou de vapeurs inflammables lorsqu'il est utilisé.

**Specifications****I/O Termination Assembly Ratings**

Cat No.	Terminal Description	Torque Size
1715-TASIB16D, 1715-TADIB16D, 1715-TASOB8DE, 1715-TADOB8DE, 1715-TASIF16, 1715-TADIF16, 1715-TASOF8, 1715-TADOF8	Termination assembly	0.5 N•m (0.37 lb•ft)

**I/O Termination Assembly Ratings**

Cat No.	Terminal Description	Torque Size
1715-A2A	Power connection	0.5 N•m (0.37 lb•ft)
	Earth stud	1.0 N•m (0.74 lb•ft)

## Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
1715 Redundant I/O System User Manual, publication <a href="#">1715-UM001</a>	Provides information to install, configure, operate, and maintain the adapter for a redundant I/O system and I/O modules.
1715 Redundant I/O System Technical Specifications, publication <a href="#">1715-TD001</a>	Provides specifications for each 1715 component.
System Security Design Guidelines Reference Manual, <a href="#">SECURE-RM001</a>	Provides guidance on how to conduct security assessments, implement Rockwell Automation products in a secure system, harden the control system, manage user access, and dispose of equipment.
UL Standards Listing for Industrial Control Products, publication <a href="#">CMPNTS-SR002</a>	Assists original equipment manufacturers (OEMs) with construction of panels to help make sure that they conform to the requirements of Underwriters Laboratories.
Safety Guidelines for the Application, Installation, and Maintenance of Solid-state Control, publication <a href="#">SGI-1.1</a>	Designed to harmonize with NEMA Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components.
Industrial Automation Wiring and Grounding Guidelines, publication <a href="#">1770-4.1</a>	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, <a href="#">rok.auto/certifications</a>	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at [rok.auto/literature](#).

## Rockwell Automation Support

Use these resources to access support information.

<b>Technical Support Center</b>	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	<a href="#">rok.auto/support</a>
<b>Knowledgebase</b>	Access Knowledgebase articles.	<a href="#">rok.auto/knowledgebase</a>
<b>Local Technical Support Phone Numbers</b>	Locate the telephone number for your country.	<a href="#">rok.auto/phonesupport</a>
<b>Literature Library</b>	Find installation instructions, manuals, brochures, and technical data publications.	<a href="#">rok.auto/literature</a>
<b>Product Compatibility and Download Center (PCDC)</b>	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	<a href="#">rok.auto/pcdc</a>

## Documentation Feedback

Your comments help us serve your documentation needs better. If you have any suggestions on how to improve our content, complete the form at [rok.auto/docfeedback](#).

## Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at [rok.auto/pec](#).

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