

Dynamix 1444 Series Monitoring System

Catalog Numbers 1444-DYN04-01RA, 1444-TSCX02-02RB, 1444-RELX00-04RB, 1444-AOFX00-04RB, 1444-TB-A, 1444-TB-B



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。ユーザーは、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.

DİKKAT: Bu ürünün kurulumu, yapilandırılması, işletilmesi veya bakımı öncesinde bu dokümanı ve bu ekipmanın kurulumu, yapilandırılması ve işletimi ile ilgili İlave 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 aktiviteler sadece uygun eğitimleri 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」章節中有关安裝、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 provázet 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 vhodné 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 omawiające instalację, konfigurację i procedury użytkowania tego urządzenia. Użytkownicy mają obowiązek zapoznać się z instrukcjami dotyczącymi instalacji oraz oprzewodowania, jak również z obowiązującymi kodeksami, prawem i normami.

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

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

OBSI: Läs detta dokument samt dokumentet, som står listat i avsnittet Övriga resurser, om installation, konfigurering 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, bediend of onderhoudt. Gebruikers moeten zich vertrouwd maken met de installatie en de bedringsinstructies, naast de verlijsten 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 the UK and European, and IEC hazardous location information	2
Updated the special conditions for safe use	2

North American Hazardous Location Approval

The following information applies when operating this equipment in hazardous locations.	Informations sur l'utilisation de cet équipement en environnements dangereux.
<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>
 <p>WARNING: 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. 	 <p>AVERTISSEMENT: 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 inadéquat à une utilisation en environnement de Classe I, Division 2. S'assurer que l'environnement est classé non dangereux avant de changer les piles.

UK and European Hazardous Location Approval

The following applies to products marked  II 3 G:


- 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 EU Directive 2014/34/EU and Schedule 1 of the UKEX Regulation 2016 No.1107. See the UKEX and EU Declaration of Conformity at rok.auto/certifications for details.
- For 1444-DYN04-01RA, 1444-RELX00-04RB modules only - The type of protection is Ex ec nC IIC T4 Gc according to EN IEC 60079-0:2018, Explosive Atmospheres - Part 0: Equipment - General Requirements, Issue Date 07/2018, CENELEC EN IEC 60079-0:2015+A1:2018, Explosive Atmospheres - Equipment protection by increased safety "e" and CENELEC EN IEC 60079-15:2019, Explosive atmospheres- Equipment protection by type of protection 'n', reference certificate number DEMKO 14 ATEX 1337974X and UL22UKEX2750X.
- For 1444-TSCX02-02RB, 1444-AOFX00-04RB modules, and 1444-TB-A, 1444-TB-B terminal bases only - The type of protection is Ex ec IIC T4 Gc according to EN IEC 60079-0:2018, Explosive Atmospheres - Part 0: Equipment - General Requirements, Issue Date 07/2018, CENELEC EN IEC 60079-7:2015+A1:2018, Explosive atmospheres, Equipment protection by increased safety "e", reference certificate number DEMKO 14 ATEX 1365X and UL22UKEX2750X.
- Are intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification according to UKEX Regulation 2016 No.1107 and ATEX directive 2014/34/EU.

IEC Hazardous Location Approval

The following applies to products with IECEx certification:

- Are intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification.
- For 1444-DYN04-01RA, 1444-RELX00-04RB modules only - The type of protection is Ex ec IIC T4 Gc and Ex nC IIC T4 Gc.
- For 1444-TSCX02-02RB, 1444-AOFX00-04RB modules, and 1444-TB-A, 1444-TB-B terminal bases only - The type of protection is Ex ec IIC T4 Gc.
- IECEx certificate number IECEx UL 14.0010X.


Special Conditions for Safe Use



WARNING:


- This equipment is not resistant to sunlight or other sources of UV radiation.
- This equipment shall be mounted in an UKEX/ATEX/IECEx Zone 2 certified enclosure with a minimum ingress protection rating of at least IP54 (in accordance with EN/IEC 60079-0) and used in an environment of not more than Pollution Degree 2 (as defined in EN/IEC 60664-1) when applied in Zone 2 environments. The enclosure must be accessible only by the use of a tool.
- This equipment shall be used within its specified ratings defined by Rockwell Automation.
- All wiring must comply with applicable electrical installation requirements (for example, N.E.C. article 501-4(b)).
- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage at the supply terminals to the equipment.
- The instructions in the user manual shall be observed.
- This equipment must be used only with UKEX/ATEX/IECEx certified Rockwell Automation base modules.
- Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product.
- Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous.

Environment and Enclosure



WARNING:


- Do not replace components or disconnect equipment unless power has been switched off or the area is known to be free of ignitable concentrations.
- This product must be installed in a suitable weatherproof metal enclosure.



WARNING: Exposure to some chemicals may degrade the sealing properties of materials used in the following devices.

- Main Module - Relay RL1, Epoxy
- Auxiliary Relay Module - Relay RL1 through RL4, Epoxy


Electrical Safety Considerations



ATTENTION:

- To comply with the CE Low Voltage Directive (LVD), all power connections to this equipment must be powered from a source compliant with the following:
 - Safety Extra Low Voltage (SELV) or
 - Protected Extra Low Voltage (PELV)
- To comply with UL/cUL requirements, this equipment must be powered from a source compliant with the following:
 - Limited Voltage Supply
- If the input power supply is restricted to 8A, no additional protection is necessary. However, for supplies with higher current ratings that will serve multiple groups of main modules, the first module of the daisy chain will require an 8A current limiting fuse for protection.

Environment and Enclosure



ATTENTION:

This equipment is intended for use in a Pollution Degree 2 industrial environment, in over-voltage Category II applications (as defined in IEC publication 60664-1), at altitudes up to 2,000 meters (6,562 ft) without derating.

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 enclosure must have suitable flame-retardant properties to prevent or minimize the spread of flame, complying with a flame spread rating of 5VA, V2, V1, VO (or equivalent) if non-metallic. 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 250 and IEC 60529, as applicable, for explanations of the degrees of protection provided by enclosures

Prevent 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 wrist strap.
- 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.

Note that all module circuits and connections (including the PE terminals) are isolated from ground and the DIN mounting rail.

When it is necessary to provide a ground reference, appropriate connections have to be made by the installer.

API 670 Considerations

While the Dynamix™ system provides protection via shutdown for API-670 compliant machines, it also measures general signals, evaluates alarm conditions, actuates relays, and sends data. Some of these measurements cannot provide guaranteed response times, due to the nature of the signal processing involved.



ATTENTION:

- Avoid the use of these measurements in shutdown alarms:
 - FFT band measurements
 - Order measurements (especially at low speeds)
- The Dynamix system is designed to monitor vibration, temperature, position and rod drop, but it should not be used to detect surge or over-speed.

Removal and Insertion Under Power

Removal and insertion under power (RIUP) is only permitted in a nonhazardous area.



WARNING:

- When you insert or remove the module while backplane power is on, an electric arc can occur. This could cause an explosion in hazardous location installations.
 - If you connect or disconnect wiring while the field-side power is on, an electric 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.

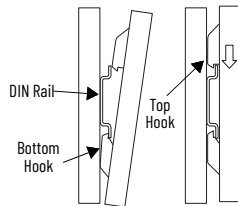
Before you remove a module, consider the following:

- If a module that includes an energized relay is removed, the relay goes to its de-energized state.
- If you remove a Dynamic Measurement Module where Ethernet is daisy-chained, one module to the next, and DLR is not used, Ethernet communication is lost to all 'downstream' Dynamic Measurement Modules.

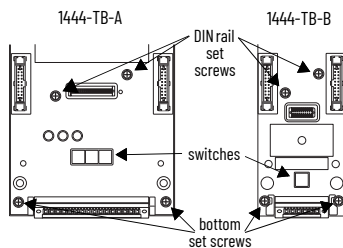
Mount the Terminal Base

Following these instructions to mount all terminal bases onto a DIN rail.

1. Align the terminal base so that the switches are on the lower part of the base.
2. Hook the bottom terminal base hook under the DIN rail.
3. Push the top of the terminal base toward the DIN rail and allow gravity to drop the top terminal base hook onto the DIN rail.



4. Center the terminal base on the DIN rail and tighten the DIN rail set screws.
5. Tighten the bottom set screws to attach the terminal base securely to the base plate.



Reverse this process to remove the terminal base.

Connect the Terminal Bases

Connect the interconnect cables before you install the modules to minimize mechanical stress.

1. Mount the first terminal base and tighten the set screws.
2. Connect the interconnect cable to the right side of the first terminal base.
3. Mount the next terminal base.
4. Connect the interconnect cable to the left side of the added terminal base.
5. Tighten the set screws on the added terminal base.
6. Repeat steps 3..5 for additional terminal bases.

Set the Switches

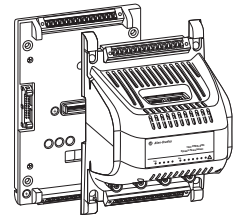
Use the following information to set the switches on the terminal base. Use a small, flathead screwdriver to adjust the rotary switches.

Terminal Base	Use with these Modules	Switches (from left to right)
Dynamic measurement module terminal base, 1444-TB-A	Dynamic measurement (main) module, 1444-DYN04-01RA	These switches set the last octet of the TCP/IP address. <ul style="list-style-type: none"> • 000 - Automatic address assignment (default) • 001...254 - Static IP address setting (for example, 192.168.192.xxx) • 255...999 - Not used, static address defaults to 192.168.192.254
Expansion module terminal base, 1444-TB-B	Tachometer signal conditioner (speed) expansion module, 1444-TSCX02-02RB	These switches set the bus address, only one analog output module per a dynamic measurement module. <ul style="list-style-type: none"> • 00 - Tachometer signal conditioner expansion module • 01...11 - Not used
	Relay Expansion Module, 1444-RELX00-04RB	These switches set the offset address, only three relay modules per a dynamic measurement module. <ul style="list-style-type: none"> • 00 - Not allowed for a relay expansion module • 01 - Relay Module 1 • 10 - Relay Module 2 • 11 - Relay Module 3
	Analog output (4...20 mA) expansion module, 1444-AOFX00-04RB	These switches set the bus address, only one analog output module per a dynamic measurement module. <ul style="list-style-type: none"> • 00 - Analog output expansion module (default) • 01...11 - Not used

Install the Module

Before you install the module, verify that there are no bent pins on the module. The following features support correct alignment and connector engagement:

- Module coding pin (Main module only)
- Base module upper and lower connector guidance
- Module to base connector guidance and alignment



Wire the Module

Use removable plug connectors to wire the Dynamix module. The connectors are available with either spring or screw-type clamps. They are not shipped with the module, and must be ordered separately.

- Use these connectors to terminate field wiring, and use the 2 lock screws on each connector to attach it to the header.

Module/Terminal Base	Spring Connector Cat. No.	Screw Connector Cat. No.
1444-DYN04-01RA	1444-DYN-RPC-SPR-01	1444-DYN-RPC-SCW-01
1444-TSCX02-02RB	1444-TSC-RPC-SPR-01	1444-TSC-RPC-SCW-01
1444-RELX00-04RB	1444-REL-RPC-SPR-01	1444-REL-RPC-SCW-01
1444-AOFX00-04RB	1444-AOF-RPC-SPR-01	1444-AOF-RPC-SCW-01
1444-TB-A	1444-TBA-RPC-SPR-01	1444-TBA-RPC-SCW-01
1444-TB-B	1444-TBB-RPC-SPR-01	1444-TBB-RPC-SCW-01

- Use these installation specifications to attach the connectors to the terminal blocks.

Attribute	Value		
Conductor wire type	Copper		
Conductor/insulation temperature rating, min	85 °C (185 °F)		
Operating temperature, max	Screw connector	115 °C (239 °F)	
	Spring connector	105 °C (221 °F)	
Torque (screw connector only)	0.22...0.25 Nm (2...2.2 lb•in)		
Insulation-stripping length	9 mm (0.35 in.)		
Conductor wire size	Solid or stranded	0.14...1.5 mm ² (26...16 AWG)	
	Stranded with ferrule without plastic sleeve	0.25...1.5 mm ² (24...16 AWG)	
	Stranded with ferrule with plastic sleeve	0.25...0.5 mm ² (24...20 AWG)	
	mm ² /AWG	Screw connector	0.08...1.5 mm ² (28...16 AWG)
		Spring connector	0.14...1.5 mm ² (26...16 AWG)
	UL/cUL mm ² /AWG	Screw connector	0.05...1.5 mm ² (30...16 AWG)
Spring connector		0.08...1.5 mm ² (28...16 AWG)	

- Where applicable, verify the proper level of field-wiring strain relief to prevent excessive stress on connector termination.

Specifications

Attribute	1444-DYN04-01RA	1444-RELX00-04RB	1444-TSCX02-02RB	1444-AOFX00-04RB	1444-TB-A	1444-TB-B
Input	North American: 18...32V, max 8A, Voltage Limited Source ATEX/IECEX: 18...32V, max 8A, SELV/PELV Source					
Output	Relay: 250V AC/24V DC, 5A max @ 40 °C (104 °F), or 250 VAC/24 VDC, 2A max @ 70 °C (158 °F) (1 each) TX PWR: +/-24V, 25 mA max per output (4 each) Opto output: 32V DC, 15 mA max per output (2 each) Buffered output: +/-24V, 8 mA max per output (4 each)	Relay: 250V AC/24V DC, 5A max @ 40 °C (104 °F), or 250V AC/24V DC, 2A max @ 70 °C (158 °F) (4 each)	TX PWR: +/-25.5V, 25 mA max per output (2 each) Processed outputs: 5V DC, 5 mA max per output (4 each) Bus outputs: 5V DC, 35 mA max per output (2 each)	Current output: 20 mA max per output (4 each)	Aux Bus: 18...32V, max 1 A	Aux Bus: 18...32V, max 1 A
Temp code	T4					

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at rok.auto/literature.

Resource	Description
Dynamix 1444 Series Monitoring Systems Specifications Technical Data, publication 1444-TD001	Contains technical specifications, environmental specifications, certifications, and other information about the system.
Dynamix 1444 Series Monitoring Systems User Manual, publication 1444-UM001	Provides detailed information on the installation and use of the Dynamix system.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for the installation of a Rockwell Automation® industrial system.
Product Certifications website, rok.auto/certifications .	Provides declarations of conformity, certificates, and other certification details.

Rockwell Automation Support

Use these resources to access support information.

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

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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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