

Product Information

Original Instructions



Allen-Bradley

by ROCKWELL AUTOMATION

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 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, kullannya, parçaları birleştirme, parçaları sökme ve bakım gibi aktivite için 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 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 przewodowania, 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.

OBŚ! 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 bedradingsinstructies, 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
European Hazardous Location Approval	3
IEC Hazardous Location Approval	3



ATTENTION: Before installing, configuring, operating, or maintaining this product, read this document and the documents 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 services, 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 chassis should be returned to the manufacturer for repair. Do not dismantle the product. If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired. This equipment is certified for use only within the surrounding air temperature range of -25...70 °C (-13...158 °F). The equipment must not be used outside of this range.

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>
<div style="display: flex; align-items: center;"> <div> <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. </div> </div>	<div style="display: flex; align-items: center;"> <div> <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 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>

**WARNING:** Environment and Enclosure

- 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:**

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

Exposures 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

European Hazardous Location Approval

The following applies to products marked ,  II 3 G.

- This equipment is intended for use in potentially explosive atmospheres as defined by European Union Directive 94/9/EC and 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.
- Such modules comply to Standards: EN 60079-0:2012+A11:2013, EN 60079-15:2010, reference ATEX certificate number DEMKO 14 ATEX 1337974X
- The type of protection for the 1444-TB-A, 1444-TB-B, 1444-TSCX02-02RB and 1444-AOFX00-04RB is "Ex nA IIC T4 Gc"
- The type of protection for the 1444-DYN04-01RA and 1444-RELX00-04RB is "Ex nA nC IIC T4 Gc"

**WARNING:** Explosion Hazard

- This equipment shall be used within its specified ratings as defined by Allen-Bradley.
- 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.
- This equipment must be used only with ATEX/IECEx certified 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 or replace equipment unless power has been removed or the area is known to be non-hazardous.
- Subject devices shall be mounted in an ATEX/IECEx-approved, suitable enclosure rated at least IP54 as defined in IEC 60529 and Pollution Degree 2 as defined in IEC 60664-1.



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

**ATTENTION:** Electrical Safety Considerations

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.

IEC Hazardous Location Approval

The following applies to products marked IECEx II 3 G:

- Such modules 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 to IEC 60079-0.
- The type of protection for the 1444-TB-A, 1444-TB-B, 1444-TSCX02-02RB and 1444-AOFX00-04RB is "Ex nA IIC T4 Gc"
- The type of protection for the 1444-DYN04-01RA and 1444-RELX00-04RB is "Ex nA nC IIC T4 Gc"

Such modules comply to Standards: IEC 60079-0: Ed.6, IEC 60079-15: Ed. 4, reference IECEx certificate number IECEx UL 14.0010X.

Environment and Enclosure

**ATTENTION:** Environment and Enclosure

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, V0 (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™ 1444 Series is an API-670 compliant machine (shutdown) protection system, it also provides a wide range of measurements to support general monitoring, condition assessment and fault diagnosis. It should be noted that some of these measurements (due to the nature of the signal processing involved) cannot provide guaranteed response times.



ATTENTION: The use of the following measurements in shutdown alarms should be avoided:

- FFT band measurements
- Order measurements (especially at low speeds)

The Dynamix 1444 Series is designed for vibration, temperature, position and rod drop monitoring, but is not for use in surge or over-speed detection applications.



ATTENTION: The use of the following measurements in shutdown alarms should be avoided:

- FFT band measurements
- Order measurements (especially at low speeds)

The Dynamix 1444 Series is designed for vibration, temperature, position and rod drop monitoring, but is not for use in surge or over-speed detection applications.

Hot Swap

Hot swap (removing/exchanging a DYN module while powered) is only permitted in a non hazardous area.



ATTENTION:

- In a hazardous area, the module must be powered down before removal.
- Always consider the consequences for the system and the monitored machine before powering down or removing any module from service.

Wiring Requirements



WARNING: All wiring must comply with applicable electrical installation requirements (for example, N.E.C. article 501-4(b)).

- Wire conductor and insulation ratings shall support minimum temperature rating of 85 °C (185 °F)
- Maximum operating use temperature of spring clamp type terminal blocks is limited to 105 °C (221 °F)
- Maximum operating use temperature of screw clamp type terminal blocks is limited to 115 °C (239 °F)

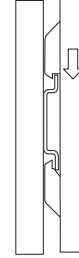
Mount the Terminal Base Unit

The following generic DIN-rail mounting scheme applies to all terminal base mounting.

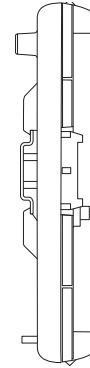
1. Hook the base assembly from the bottom under the DIN rail.

The bottom side of the terminal base is identified by the presence of coding switches.

2. Hook over the top and let gravity drop the terminal base into place.



3. The terminal base is in the center position to the DIN rail. Once hooked, fasten the two center (set) screws to secure the base to the rail.
4. Tighten the two bottom set screws to further secure the terminal base to the base plate such to prevent rocking effect while applying mechanical pressure to the base.



Reverse the process to remove a base. Loosen the screws to create sufficient clearance for removal of the terminal base.

Establish Bus Connections

Install the interconnect cable when mounting the terminal bases to minimize mechanical stress.

1. Install and secure the first terminal base.
2. Install the interconnect cable to the first module (right side).
3. Install the second terminal base.
4. Connect the interconnect cable to the second module (left side).
5. Secure the second terminal base.

Configure the Main Terminal Base

The Main module terminal base provides three decimal coding switches used to define the last octet of the module's TCP/IP address.

The settings, from left to right with switches on bottom, are:

- 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

The rotary switches can be adjusted by using a small, flathead screwdriver.

Configure the Relay Terminal Base

The settings, from left to right with switches on bottom, are:

- 00: Not allowed for a Relay Expansion Module
- 01: Relay Module 1
- 10: Relay Module 2
- 11: Relay Module 3

Configure the 4...20 mA Terminal Base

The settings, from left to right with switches on bottom, are:

- 00:4...20m A Analog Expansion Module
- 01...11: Not used (default to 00)

Configure the Tacho Signal Conditioning Terminal Base

The settings, from left to right with switches on bottom, are:

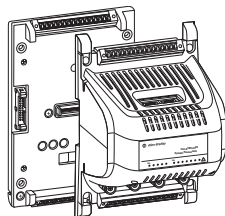
- 00: Tacho Signal Conditioner Expansion Module
- 01...11: Not used

Install the Module

Main and Auxiliary module Electronics modules are readily fitted to their respective bases, with correct alignment and connector engagement being supported by the following features:

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

Prior to installation of the Electronics module, check that there is no damage (bent pins) on the Main/Auxiliary module to base connector.



Field Wiring

Field wiring plugs, mating to the provided coded headers of the Dynamix 1444 system components, are not part of standard delivery.

Separate field-wiring plug assemblies are available to allow choice for spring or screw terminal connections for field wiring.

- Use these assemblies, each being specifically configured for each type of module, to terminate field wiring and use the 2eda lock screws on each connector to secure the connector plugs to the headers.
- Use the installation requirements set forth in the following table to correctly secure the field wiring to the terminal blocks.
- Where applicable in application ensure proper level of field-wiring strain relief to prevent excessive stress on connector termination.

Field Wiring Termination Requirements

Attribute	Value
Tightening torque, min-max (screw type only)	0.22...0.25 Nm
Normal cross-section	1.5 mm ²
Stripping length	9 mm
Conductor cross-section solid or stranded min-max	0.14...1.5 mm ²
Conductor cross-section stranded with ferrule without plastic sleeve min-max	0.25...1.5 mm ²
Conductor cross-section stranded with ferrule with plastic sleeve min-max	0.25...0.5 mm ²
Conductor cross-section AWG/kcmil min-max, screw clamp type	28...16
Conductor cross-section AWG/kcmil min-max, spring clamp type	26...16
AWG according to ULL/CUL min-max, screw clamp type	30...16
AWG according to ULL/CUL min-max, spring clamp type	28...16

Specifications

Attribute	1444-DYNO4-01RA	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 1A
North American temperature code	T4					
ATEX/IEC temperature code	T4					

Additional Resources

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

Resource	Description
Dynamix 1444 Series Monitoring Systems Specifications Technical Data, publication 1444-TD001	Contains technical specifications, environmental specifications, certifications, and other information pertaining to Dynamix 1444 monitoring systems.
Dynamix 1444 Series Monitoring Systems User Manual, publication 1444-UM001	Provides detailed information on installing and using Dynamix 1444 monitoring systems.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, http://www.ab.com	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at <http://www.rockwellautomation.com/literature/>.

To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

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 information on its website at rok.auto/pec.

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.

For technical support, visit rok.auto/support.

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