

Dynamix 2500 Data Collector, Firmware Revision 1.020

Catalog Numbers 1441-DYN25, 1441-DYN25-Z

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Safety Information

Be aware of these safety precautions.

IMPORTANT Avoid Water

The Dynamix[™] 2500 data collector is splash and dust resistant. However, avoid direct contact with water, wet surfaces, or condensing humidity. Keep this instrument away from wet locations, for example, laundry, wet basements, swimming pools.

If the data collector is subjected to these conditions, adverse operation may result. Before you use it, let the instrument dry thoroughly before operating.



ATTENTION: To avoid damage or injury, place the Dynamix 2500 data collector on a solid stable surface when not in use and do not place any heavy objects on it. Use only the accessories recommended by Rockwell Automation. Keep liquids and foreign objects away from the instrument, and never operate it if any liquid or foreign object has entered it.

Optical Ports



ATTENTION: When the laser on the data collector is active, viewing the laser beam can expose your eyes beyond the maximum permissible exposure recommendations and cause harm.

Laser Radiation Ports



ATTENTION: Class 1 laser product. Laser radiation is present when the system is open and interlocks bypassed. Only trained and qualified personnel should be allowed to install, replace, or service the instrument.



Enhancements

This table lists the enhancements that are provided with the Dynamix 2500 data collector, revision 1.020.

Table 1 - Enhancements with Revision 1.020

Cat. No.	Enhancement	
1441-DYN25, 1441-DYN25-Z	A Set-up menu option for Module ICP is avai	lable.
	Setup	
	Route Mem:InternalTimeout:OffTrigger:ExternalDflt Units:EnglishDate Format:DD/MM/YYYYTime Zone:(GMT-05:00) EaDate/Time:11:17 12/09/2012Memory:-select cmd-Route Font:BigEnvelope:gSENavigation:DataPacTransducer ChanWarnBias Check:ManualModule ICP:NeverLanguage:AlwaysAuto	
	Help Cont Cont. + Apply	

Corrected Anomalies

This table lists the corrected anomalies with the Dynamix 2500 data collector, revision 1.020.

Table 2 - Corrected Anomalies with Revision 1.020

Cat. No.	Description			
1441-DYN25 1441-DYN25-Z	CORRECTED: The data collector does not recognize user defined units.	ICM00000755		
	CORRECTED: The data collector freezes when collecting data on a Secure Digital (SD) card for two continuous ho	urs. ICM00000760		
	CORRECTED: If no previous data is set with the Emonitor software configured as undefined for the speed reference instrument may not adjust a great agree the for dependent points.	ce, the		
	instrument may not calculate speed correctly for dependant points.	ICM00000785 ICM00000782		
	CORRECTED: The increase from 3 to 6 levels of hierarchy can make the navigation more complex due to the amount the applied through to apply the point.	int of data that		
		ICM00000787		
	CORRECTED: Spectral peak displays as 3x higher than overall amplitude.	ICM00000798		
	CORRECTED: The -gSE Time waveforms can appear 'smoothed' when compared to the Datapac [®] 1500 data collect	tor. Occasionally		
	gol / Time measurements are not taken concerty (an os). The - gol Time waverorms are inverted.	ICM00000876		
	CORRECTED: Overlapping band alarms do not trigger correctly.	ICM00000789		
	CORRECTED: The Capture On Alarm works with only the first point after the Magnitude point.	ICM00000914		
	CORRECTED: Filtered Orbits support up to 3x filtering. All others will be taken and uploaded as Unfiltered.	ICM00000935		
	CORRECTED: The 1x RPM does not update cursors when in Continuous mode.	ICM00000913		
	CORRECTED: When trying to set a high Fmax to measure gear mesh frequencies, for example, up to 80 kHz, the unit may let you take the reading is you extend to use the reading is you extend to use the reading is you at a set of the reading is you a			
		ICM00000802		
	CORRECTED: When the route is collected, the first two-channel measurement is collected without errors. During channel measurement, the error message; `error retrieving information from database' appears and the route locks	the second two- s up. ICM00000815		
	CORRECTED: The data collector fails to recognize a change in collection specifications, for example, spectral data	a with different		
		ICM00000818		
	CORRECTED: When you load a magnitude/phase measurement point with a collection spec that has more than eithen attempt to load to the collector, it does not load the measurement point. The error message `Unsupported Me	ght orders and asurement'. ICM00000825		
	CORRECTED: The data collector cannot extract speed from the spectrum if the magnitude reading is taken first. To	o avoid this		
	Situation, create a Location iD with a magnitude measurement point pror to a spectrum measurement point.	ICM00000834		
	CORRECTED: When taking a reading with the wrong filter selected, the OA Power Bar is not displayed when taking	ng a reading. ICM00000845		
	CORRECTED: When you have band alarms that are overlapping and one is triggered but the overlapping alarm is a see the whole alarm band flashing as the untriggered alarm is painted over the triggered one.	not, you will not		
	see the whole alarm band hashing as the untriggered alarm is painted over the triggered one.	ICM00000848		
	CORRECTED: The frequency item order reference is not always the motor speed reference. Although the time way correct speed for the motor locations, the speed increased or reduced locations have an incorrect speed on just the ratio (multiply) relationship is not used, and the waveform uses the motor speed for its rom value.	eforms have the waveforms. The		
		ICM00000849		

Cat. No.	Description	
1441-DYN25 1441-DYN25-Z	CORRECTED: There is no power for accelerometer with velocity output when displaying reading in mils.	ICM00000850
	CORRECTED: Option for printing to SD card is lost.	ICM00000861
	CORRECTED: The data collector is unable to support DC Bias Trending in Route mode when taking readings from a	a switch-box.
	These readings require the instrument to power the transducer.	ICM00000862
	CORRECTED: Order-based measurements collect as if the Fmax is based on the speed downloaded from the Emoni	tor software, so
	ICM0000090	2, ICM00000870
	CORRECTED: If a enter key is pressed before the data collector starts the Initialize process, the unit locks up and booted. If the enter/fire key is pressed before Splash Screen has completed, the data collector will lock up during t	must be warm he power cycle. ICM00000875
	CORRECTED: When the Balancing Extension Module defaults to External Trigger, a LASERTACH® option is needed	ed. ICM00000880
	CORRECTED: When a motor is going slow, the rpm on the screen does not display the proper value. When changing the proper value is going slow, the rpm on the screen does not display the proper value.	ng speeds, the
	rpm does not change to match the motor speed.	ICM00000882
	CORRECTED: The number of characters that can be used to define route locations needs to be expanded. You need	d to be able to
	manually change the font size on the data collector to reduce the amount of scrolling.	ICM00000915
	CORRECTED: Overall (or Overall and Spec) points can get marked with the wrong speed.	ICM00000924
	CORRECTED: Using an SD Card, formatted as Fat32, you need to take two sets of data for the same route.	ICM00000933
	CORRECTED: The data collector collects Unfiltered Orbits only, but not 1st Order, 2nd Order, for example, no filtered	ed orbits. ICM00000935
	CORRECTED: The data collector always unloads a value of either -4.0882V when collected with an Orbit or -4.086 collected as a separate measurement. This is regardless of the fact that the actual gap voltage is, for example, -9.9	8V when 387 or -10.023. ICM00000936
	CORRECTED: Low Frequency measurement reads lower than expected.	ICM00000937
	CORRECTED: Having a (Ov+Spec or RSS) Control Point that is its own reference causes the point measurement to	not be taken. ICM00000938
	CORRECTED: The percentage change between last and current reading is displayed incorrectly when Chinese language is selected. The workaround is to set the language to English and retake the measurement	ICP 🕌 14:12
	ICM00000941	5 5 5 5 5 5 5 5 5 5 12 8 1 1 rx'd 1 1 1 1 1 1 1 1 1 1 1 1 1

Cat. No.	Description
1441-DYN25 1441-DYN25-Z	CORRECTED: If you have band alarms that are overlapping then if one is triggered but the overlapping is not, you will not see the whole alarm band flashing as the untriggered alarm is painted over the triggered one.
1441-PEN25-2C	ICM00000848
	 CORRECTED: gSE/Time measurements may not be taken correctly; the instrument has displayed all zeros when you follow this sequence. 1. Restart the instrument. 2. Take a gSE Time Only point.
	ICM00000893
	CORRECTED: When using a Velocity probe, both the Enpac 2500 data collector, revision 2.02, and the Dynamix 2500 data collector, revision 1.01, disables ICP power. When using OffRoute and coupling set to ICP, the unit does not actually turn on ICP power. ICM00000894
	CORRECTED: If connected to a Speed Ref POINT, the Spectrum POINT is downloaded with the wrong speed value. This speed value is based on the previously uploaded Speed. If this POINT is attached to a Speed Ref POINT, it should update to the newly measured speed and then upload to the Emonitor software with the new value.
	ICM00000895
	CORRECTED: When you setup an OffRoute gSE POINT with Display Format = Time and 2 kHz filter, with 500 Hz Fmax, the gSE time waveforms are inverted. If you apply a Burst signal, with a carrier of 1 kHz and Burst of 10 cycles and 50 ms (20 Hz), you may see that the spikes in the time waveform are going negative, rather than positive.
	ICM00000896
	CORRECTED: The first time you delete a measurement (from Review) you get a TourDB error and it isn't deleted (although the tick mark vanishes) but if you delete it again it disappears
	ICM00000897
	CORRECTED: When taking an Orbit measurement, the default view shows the correct rpm. If you change to the Time View using the View Menu, then the incorrect rpm is shown. The Orbit view is correct and is showing what is actually measured and stored. ICM00000898
	CORRECTED: If you take a measurement with Frequency Items where the Speed is taken from a previous POINT, for example rpm, then the Frequency Items are incorrectly drawn in the FFT. They appear to get correctly drawn after the POINT has been stored, for example, they are correct in Bayiaw.
	ICM00000899
	CORRECTED: The Machine Speed 'Auto' setting should default to behave like 'Slow' when the associated rpm has less than 600 rpm 'Auto' may only behave like 'Slow' when the speed drops below 200 rpm, but this is too low (3, 33 Hz)
	 CORRECTED: When setting the following parameters OffRoute and applying a 60 Hz sine wave at 100 mV Pk with a -1V DC offset: Accel (g) DC Coupling Peak Detection Filter OFF 400 Hz Fmax You will get these results: Overall - 23.1 g 0 Hz bin - 20.1 g 60 Hz bin - 1 g
	ICM00000901
	CORRECTED: Orders-based measurements collect as if the Fmax is based on the speed downloaded from the Emonitor software,
	so changing the actual speed does not change the Fmax used for the measurement. ICM00000902

Table 3 - Corrected Anomalies with Revision 1.010

Table 3 - Corrected Anomalies with Revision 1.010

Cat. No.	Description
1441-DYN25 1441-DYN25-Z	CORRECTED: Measurements are collected with the wrong Fmax for Orders points with speed set by a Control Point. If a point is set up as Orders but with the speed coming from a Control Point, then (in many cases) the measurement is taken with the incorrect Fmax that makes the frequencies labeled incorrectly.
1441-PEN25-26	ICM00000903
	CORRECTED: Downloading a route where the first point is unsupported and can give TourDB errors even though the invalid point is not downloaded and require a soft restart.
	ICM00000904
	CORRECTED: If there is a point with a Magnitude and Spectrum collection, and you are using an Analog Filter, then it is possible for the Spectrum Pack to be much larger than the Quarterly approximation in Integrated
	ICM00000905

Known Anomalies

This table lists the known anomalies for the Dynamix 2500 data collector, revision 1.020.

Table 4 - Known Anomalies with Revision 1.020

Cat. No.	Description
1441-DYN25 1441-DYN25-Z	Automatic amplitude ranging may take a long time. Data might be missed. ICM00000808
	When the route is collected, the first two-channel measurement is collected without errors. During the second two-channel
measuremen	ICM00000815
	Channel 2 previous values do not download on cross-phase POINTs. If you take a cross-phase POINT, then the Channel 2 previous values do not download on cross-phase POINTs. If you take a cross-phase POINT, then the Channel 2
	ICM00000910
	Offroute does not take displacement from Accel in Time format.
	When taking an integrated measurement by using the Conservative Autoranging setting, you may notice a measurement that is 15% lower than expected. To avoid this lower reading, use the Aggressive or Fixed Autoranging setting to get
	ICM00000942

Known Anomalies for the Emonitor Software

This table lists the known anomalies for the Emonitor software that affects the Dynamix 2500 data collector, revision 1.020 and earlier.

Cat. No.	Description		
Emonitor	If no previous data is set with the Emonitor software configured as undefined for the speed reference, the instrument may not		
	calculate speed correctly for dependant points.	ICM00000785 ICM00000782	
	You may not see the overall amplitude versus a time plot prior to collecting data starting on measurement point.	ICM00000783	
	The increase from 3 to 6 levels of hierarchy can make the navigation more complex due to the amount of data that must	be scrolled	
		ICM00000787	
	The Speed Reference function from a spectrum is not supported.	ICM00000795	
	When trying to set a high Fmax to measure gear mesh frequencies, for example, up to 80 kHz, the unit may let you take	the reading if	
	entering with numeric keys.	ICM0000802	
	When you measure gear mesh frequencies above 20 KHz, you will not be able to see a 2x (40 KHz) gear mesh frequency	. Emonitor	
	software version 3.4 does not support > 40 KHz on the Dynamix 2500 data collector or the Enpac 2500 data collector.	ICM00000806	
	ISO2954 is not fully supported with the Dynamix 2500 data collector or the Enpac 2500 data collector.	ICM00000807	
	You may find that the option to Unload All Measurements when following this sequence. 1. Load a route from Emonitor software, version 3.4 with HF090525 applied via USB connection. 2. Take multiple readings. 3. Select Unload all and view multiple measurements for the route point. 4. Load a route from Emonitor software, version 3.4 with HF090525 applied. 5. Take multiple readings.		
	The Unload All Measurements setting cannot be selected.	ICM00000826	
	When taking a reading with the wrong filter selected, the OA Power Bar does not display when taking a reading.	ICM00000845	
	If the SD card is in the data collector and is set to Internal memory, it sees the routes loaded via the USB connection for	both the card	
	and internal memory. If you initialize before loading, it also deletes the card mes.	ICM00000872	
	The Dynamix 2500 data collector intermittently displays the message No Routes in Active Memory. If the software initia loading routes, the data collector intermittently displays the message No Routes in Active Memory. This happens during sequence.	lizes prior to the following	
	2. Initialize the card in the data collector.		
	3. Place the card back into the card reader to load routes. This may be happening if you erase routes from the Secure Digital (SD) card via the Emonitor software. If you see the in	termittent	
	message, press Refresh on the data collector.	ICM00000873	
	Emonitor downloads the data twice (plus SBA) once data has been taken (presumably because the alarms don't match b Mag+Spec). If you remove the alarms from both (or even just the Spec point), then it looks like this point is loaded correct	etween the ctly. ICM00000923	
	Two-channel data works simultaneously if you set Lo Chan to 1 and 2. Adding a time point to the group changes the group	up from two	
		ICM00000934	
	When you take an Offroute orbit reading and unload it to Emonitor, version 3.4, it will unload to Unscheduled. The orbits	graph in	
		ICM00000939	

Operating System Update Procedures

Download the Dynamix 2500 .zip upgrade file from http://www.rockwellautomation.com/support/. Choose Downloads > Firmware Updates > Condition Monitoring.

IMPORTANT We recommend that you delete all older versions of the installer loader .msi files from your computer before updating the Dynamix 2500 data collector's operating system.

You can load the operating system/firmware from Dynamix 2500 data collector product CD by using the USB connection. Use the Dynamix 2500 OS Loader application on the product CD or at http://www.rockwellautomation.com/support/firmware.html

To use the Dynamix 2500 OS Loader application, the following must be installed on your computer:

Microsoft's ActiveSync software

Communication is supported through the USB port by using Microsoft ActiveSync software, version 4.5 or later.

If you have not installed ActiveSync software, see Install ActiveSync or Mobile Device Center Software in the Dynamix 2500 Data Collector User Manual, publication <u>1441-UM001</u>, for more information.

USB Drivers

If you have not installed the USB drivers for your Dynamix 2500 data collector, see Installing the USB Drivers in the Dynamix 2500 Data Collector User Manual, publication <u>1441-UM001</u>.

IMPORTANT Whenever you rerun the OS Loader software, you will reload only the main OS firmware. The OS loader will back up licence files and data, but not the optional extension modules. Once you have updated the OS firmware, install the latest version of your optional extension modules.

Before performing the 1.020 firmware upgrade, take note of the modules installed on the Dynamix 2500 data collector.

TIP To confirm which modules are installed and the version, press F3 (About) on the Main Screen.

Table 5 - Data Collector Modules

Cat. No.	Module	Version
1441-DYN25-MBAL	Balancing Upgrade	
1441-DYN25-MBMP	Bump Test	
1441-DYN25-MFRF	FRF - Frequency Response Function	
1441-DYN25-MREC	RuCD - RunUp CoastDown	
1441-DYN25-MRUC	Recorder	

Install the Dynamix 2500 OS Loader Application

1. Double-click the Dynamix 2500

Dynamix2500_OS_Loader_v1.02.13506.msi file on your computer.



2. Click Next.

Dynamix2500 OS Loader			>	
Select Installation Folder				
The installer will install Dynamix2500 OS	Loader to the following	g folder.		
To install in this folder, click "Next". To in	stall to a different folde	er, enter it below o	or click "Browse".	
Folder				
C\Program Files\Allen-Bradley\Dynamix2500 OS Loader\ Browse				
			Disk Cost	
		_		
Install Dynamix2500 OS Loader for yo	urself, or for anyone wi	no uses this comp	outer:	
Everyone				
🔿 Justme				
	Cancol	< Back	Neuta	

3. Select an installation folder and click Next.



4. Click Next.

🕞 Dynamix2500 OS Loader			_ 🗆 X
Installing Dynamix2500 ()S Loader		
Dynamix2500 OS Loader is being installe	ed.		
Please wait			
	Cancel	< Back	Next >
			110/11/

The loader is installed.

The installation is complete.



5. Click Close.

Install the Dynamix 2500 Data Collector Firmware

This procedure details the steps necessary to reinstall or upgrade your data collector's firmware by using the Dynamix 2500 OS Loader application.

TIP We recommend that you upload your data to Emonitor before you update the operating system just in case there is an error with the firmware installation, such as a cable disconnect.

Follow these instruction to install the firmware.

1. Apply power to the data collector.

- 2. Connect your Dynamix 2500 data collector to the computer by using the splitter cable USB connection.
- 3. Make sure the ActiveSync software is running.
- 4. From the Start Menu, choose Programs>Allen-Bradley>Dynamix 2500>Dynamix 2500 OS Loader.

Handheld Firmware Installer	×
NOTE: installing the new Firmware may take 5 - 30 minutes depending on how much data you have which requires backing up a	nd restoring.
OK	

5. Click OK.

During the installation, the Dynamix 2500 data collector restarts several times and multiple screens are displayed. Disrupting or disconnecting the data collector from the computer causes the installation procedure to terminate and may leave the data collector in a corrupted state.



You will be prompted to back up module data, for example, Run-up Coast-down measurements, route database, and measurement data. You can choose to back up this data; it is automatically restored later in the firmware installation process. Any module data that is not backed up will be erased.

6. Click Yes, if desired.

Installer - Select	1
Backup Modules Data?	
Yes No	

You will be prompted also to back up Routes. If backed up, these are also automatically restored later in the firmware installation process. Any Routes that are not backed up will be erased.

7. Click Yes, if desired.

The loader goes through a series of backing up, deleting, and copying files.



You will notice that the unit will reboot and ActiveSync will disconnect and reconnect. Let the loader run through its processes. Do not remove any cables or press any keys on the data collector.



8. Click OK.



Installation is complete.

9. Click Exit.

:RockModules\RUCD_HelpWavSetup_0407.txt	
:RockModules\RUCD_HelpWavSetup_0409.txt	
:RockModules\RUCD_HelpWavSetup_040B.trt	
:RockModules\RUCD_HelpWavSetup_040C.trt	
:RockModules\RUCD_HelpWavSetup_0410.txt	
:RockModules\RUCD_HelpWavSetup_0413.txt	
:RockModules\RuCd_HelpWavSetup_0415.txt	
:RockModules\RUCD_HelpWavSetup_0416.txt	
:RockModules\RUCD_HelpWavSetup_0419.txt	
:RockModules\RUCD_HelpWavSetup_041D.txt	
:RockModules\RUCD_HelpWavSetup_0804.txt	
:RockModules\RUCD_HelpWavSetup_0C0A.txt	
:RockModules\RUCD_rc.dll	
COPY_DIR : Internal Disk\RuCd, RAPI:\Internal Disk\RuCd	
:Demo_CoastDown.wav	
:Demo_CoastDown_sg.csv	
WARM_REBOOT :	
RAPI connection closed	
Install complete	
	E

Module Licensing

Any modules that were licensed prior to the upgrade will still be licensed. Any modules that are installed, but which have not been licensed will appear grayed out as unavailable.

Main Menu		14:01
	T	-
DATA COLLECTION	SETUP UTILITY	BALANCING
5	FAF	e
BUMP TEST	FRF	RECORDER
RUCD		
	13/06/20	12
Help	4	About

To activate grayed-out modules, contact your local Allen-Bradley distributor or Rockwell Automation sales representative. Use the table <u>Data Collector Modules</u> <u>on page 8</u> to identify what modules you need to order.

IMPORTANT You will need to reenter the date and time in the data collector.

TIP

To confirm that the correct revision was loaded, press F3 (About) on the Main Menu screen. The firmware revision should match the operating system file just loaded.

About	11:02
Dynamix 2500 Data Collector	
Unit ID: 0000-001F-5D33 Firmware Version: 1.02 (Two Channel) (With Offroute) Last calibrated on: 11/09/2012 BALANCING 3.08 BUMP TEST 3.08 FRF 3.08 RECORDER 3.08	▲
Info	Esc

Upgrading the Emonitor Software

The Dynamix 2500 data collector, firmware revisions 1.010 and 1.020, are compatible with the Emonitor software, revision 3.4 and later. For instructions on how to upgrade your Emonitor software, refer to one of the Emonitor installation manuals.

Table 6 - Emonitor Installation Manuals

Publication	Publication Number
Emonitor Gupta Single User Installation Manual	EMONTR-IN001
Emonitor Gupta Multi User Installation Manual	EMONTR-IN002
Emonitor Oracle Multi User Installation Manual	EMONTR-IN003
Emonitor MSSQL Multi User Installation Manual	EMONTR-IN004

Secure Digital (SD) Storage Cards

The Dynamix 2500 data collector stores program information and data on a Secure Digital (SD) card. The unit is configured to accept a standard SD card > 4 GB that is supported with a Microsoft Windows CE driver. You can insert the SD card into the instrument when it is powered on or off.

IMPORTANT The Dynamix 2500 data collector is only certified for use with the Sandisk Secure Digital Card SDSDx-yyy.

Dynamix 2500 Data Collector Kit Parts List

See the Dynamix 2500 Data Collector User Manual, publication <u>1441-UM001</u>, for a complete parts list. This publication is also on the product CD-ROM.

Additional Resources

These documents contain additional information concerning products from Rockwell Automation.

Resource	Description
Dynamix 2500 Data Collector User Manual, publication <u>1441-UM001</u>	Describes configuring the data connector, setting up measurements, collecting and reviewing data, and loading and unloading data.
Emonitor User's Guide, publication EMONTR-UM001	Describes data management for predictive maintenance services.
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

<u>http://www.rockwellautomation.com/literature</u>. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products. At <u>http://www.rockwellautomation.com/support/</u>, 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 TechConnectSM support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <u>http://www.rockwellautomation.com/support/</u>.

Installation Assistance

If you experience a problem within the first 24 hours of installation, review the information that is contained in this manual. You can contact Customer Support 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 <u>Worldwide Locator</u> at <u>http://www.rockwellautomation.com/support/americas/phone_en.html</u> , 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 <u>RA-DU002</u>, available at <u>http://www.rockwellautomation.com/literature/</u>.

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