On-Machine Indicators with IO-Link Interface

Catalog Numbers 853C-BLMCQD4, 853C-BLMCPQD4, 853D-BLMCQD4, 853D-BLMCPQD4, 853D-BLMCTQD4, 853D-BLMCPTQD4

Allen-Bradley
by ROCKWELL AUTOMATION

User Manual

Original Instructions

Important User Information

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.

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WARNING: Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.

ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequence.

IMPORTANT: Identifies information that is critical for successful application and understanding of the product.

These labels may also be on or inside the equipment to provide specific precautions.

SHOCK HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.

BURN HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.

ARC FLASH HAZARD: Labels may be on or inside the equipment, for example, a motor control center, to alert people to potential Arc Flash. Arc Flash will cause severe injury or death. Wear proper Personal Protective Equipment (PPE). Follow ALL Regulatory requirements for safe work practices and for Personal Protective Equipment (PPE).

The following icon may appear in the text of this document.

Identifies information that is useful and can help to make a process easier to do or easier to understand.

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.

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Preface

This manual is a reference guide for the 853 On-Machine Indicators with IO-Link Interface. It describes the procedures to install and configure these devices.

IMPORTANT: To ensure genuine Allen-Bradley quality, purchase only from authorized distributors.

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
Bulletin 853D Programmable Touch Button Installation Instructions, publication 853-IN002	Provides instructions to install and wire your 853D programmable touch button.
Bulletin 853D Programmable LED Indicator Installation Instructions, publication 853-IN003	Provides instructions to install and wire your 853D programmable LED indicator button.
Bulletin 853D IO-Link Touch Button Installation Instructions, publication 853-IN004	Provides instructions to install and wire your 853D IO-Link touch button.
853D On-Machine Indicators Quick Start, publication 853-QS001	Provides information regarding the configuration software and device configuration.
System Security Design Guidelines Reference Manual, SECURE-RM001	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.
Industrial Automation Wiring and Grounding Guidelines, 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Selection and Configuration tools, rok.auto/systemtools	Helps configure complete, valid catalog numbers and build complete quotes based on detailed product information.
Product Certifications website, rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.

Product Overview

Product Selection

The following table lists the available 853C and 853D IO-Link On-Machine indicators.

Table 1. 853C/853D IO-Link On-Machine Indicators

Device ID	Description	Cat. No.
448	55 mm IO-Link touch button	853D-BLMCTQD4
449	55 mm IO-Link touch button with sound	853D-BLMCPTQD4
450	35 mm IO-Link LED indicator	853C-BLMCQD4
	55 mm IO-Link LED indicator	853D-BLMCQD4
451	35 mm IO-Link LED indicator with sound	853C-BLMCPQD4
	55 mm IO-Link LED indicator with sound	853D-BLMCPQD4

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IO-Link System Overview

IO-Link technology connects smart devices through an IO-Link primary module to deliver device data, diagnostics, and machine health information to the control system.
IO-Link technology is a worldwide open-standard protocol that integrates devices into our Connected Enterprise® by connecting the IO-Link enabled device into an IO-Link primary module. You can use it to deliver data from smart devices directly into a control system efficiently. The flexibility of IO-Link capable devices allows machines to operate more effectively by providing diagnostics and data including detailed machine health status to improve uptime and increase productivity.

IO-Link Functionality

IO-Link communication is based on a primary-secondary structure in which the primary controls the interface access to the connected device. The option of using the intelligence that is integrated into the device provides you with new methods to commission your device and monitor the health of your system. Benefits of IO-Link technology range from reduced installation time during startup to increased diagnostics over the lifetime of the machine.

When using the full Rockwell Automation solution including Studio 5000 Logix Designer® software, you get an enhanced level of integration plus features and functionality not available with competitive offerings, such as:

- Simplified device configuration through Add-on Profiles (AOP)
- Controller saves device configuration automatically for device replacement conditions (ADC)
- Automatically formatted and named device tags

IO-Link does not offer built-in mechanisms for authorization, authentication, or data integrity protection. The application must therefore be designed, implemented, and operated with appropriate security controls to mitigate these limitations. Periodical security audits are recommended.

- For more information, visit io-link.com
- For more cybersecurity guidelines see, the System Security Design Guidelines (publication SECURE-RM001), NIST.SP.800-53, and NIST.SP.800-82

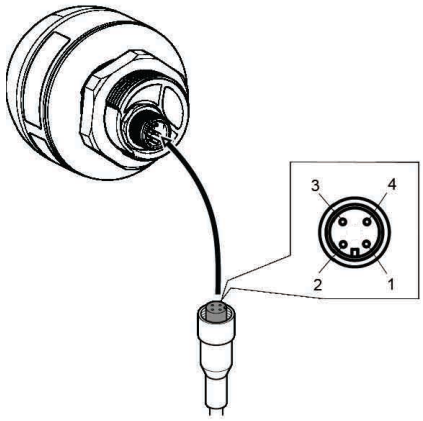
Installation

Device Connection

The following shows the 4-pin M12 connector pin assignment for 853C/853D indicators, including wire color and IO-Link function.

The 853C/853D indicator connects with a 4-pin M12 connector. The following table shows the pin assignment:

Figure 1. Pinout



Pin	Wire Color	IO-Link Function
1	Brown	L+
2	White	Not connected
3	Blue	L-
4	Black	C/Q

IODD File Registration

Register the IODD file for an IO-Link device so you can add the device under the IO-Link bus and configure, control, and monitor it.

Each IO-Link device has an associated IODD that has information about this device. There are two ways to get the IODD file:

- Download IODD files from rok.auto/pcdc
- The IODD is available in the IODD finder section io-link.com

You can use the Device Description File Installation Tool to import the IODD file of your device.

For more information on IODD registration, see the IO-Link Primary User Manual. Once the IODD for the device is registered, you can add the device under the IO-Link bus. There you can access the device Module Properties window to define/control connections, configure, and monitor the status of the device.

Location Indicator

The Location Indicator parameter controls visual signaling for IO-Link communication establishment and event presence.
The Location Indicator parameter is enabled as factory default.

- IO-Link Communication Establishment
  When location indicator is enabled, the device signals the establishment of communication with the IO-Link primary. When the device enters the operating state, a steady white light comes on for 1 second. The device acknowledges the Process Data after the communication establishment signaling is complete.

- Event Presence
  When location indicator is enabled, the device flashes a distinctive pattern (SOS pattern) to visually indicate one of the following:
  - One of the events is present
  - The device self-test was not successful in overriding the actual light and color configured via process data

  If location indicator is disabled, then no distinctive light pattern is displayed, even if an event is present.

Configuration

The required products include the following hardware and software:

Hardware

Use these hardware components to connect and operate the IO-Link On-Machine™ indicator with a compatible IO-Link primary module.

- IO-Link On-Machine™ indicator
- IO-Link primary module
- 889D cordset or patchcord

IMPORTANT: The 853C/853D IODD files are based on IO-Link specification v 1.1.4. Verify that IO-Link primary is fully compatible with the specification. The PointMax™ I/O (5034 series) and ArmorBlock 5000® (5032 series) IO-Link primaries support this specification.

Software

Use this software to configure and integrate the signaling device in a Studio 5000 Logix Designer® environment.

- Studio 5000 Logix Designer®, version 35 and higher
- Device-specific IODD
- Primary IO-Link Add-on Profile (AOP)

Service Functions

IMPORTANT: If the device is attached to an IO-Link channel, you may not be allowed to execute any System Commands on the device when the device is Uninhibited. To execute System Commands, Inhibit the module in Connection Tab in AOP.

Figure 2. Inhibit Module

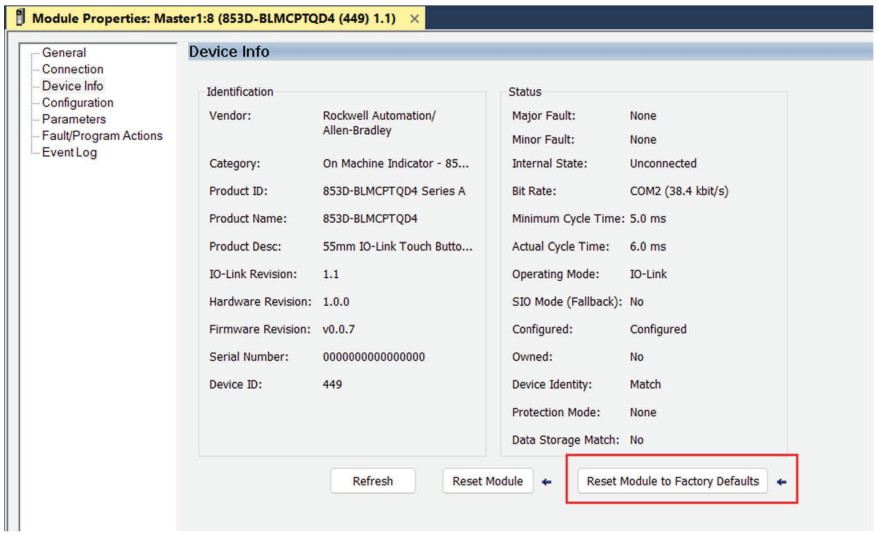
Device Reset

This section describes the available device reset functions and explains how each reset type affects device parameters and operation.

Factory Reset

This function allows a device to reset the parameters to their original factory settings. It is triggered by receiving the system command Restore Factory Settings. If this function does not appear in the Parameter Tab in device AOP, see the IO-Link Primary device user manual for instructions on how to perform reset to factory default. The following image shows an example for a 5032-8IOL* primary.

Figure 3. Restore Module to Factory Defaults with a 5032-8IOL* Primary



The DS_UPLOAD_FLAG and other dynamic parameters such as Error Count, Device Status, and Detailed Device Status are reset when this function is used. Manufacturer-specific parameters such as Operating Hours or Power Cycles counters are not reset.

Application Reset

This function allows a device to reset the technology-specific application. Technology-specific parameters are settings that determine the function or behavior of the device. For example, the Touch Output Mode parameter is set to Momentary by default. If the parameter is changed to Maintained and then an Application Reset is performed, the parameter is reset to its default value. This function is useful when a technology-specific application must be set to a predefined operating state without interrupting communication and requiring a shutdown cycle. Unlike Restore Factory Settings, only the application-specific parameters are reset to default. Communication and identification parameters remain unchanged.

Back-to-box

This function enables a device to reset the parameters to the original factory settings without interaction with higher-level mechanisms such as data storage or PLC-based parameterization. It is useful when a device is removed from an already parameterized system and reactivated, for example, as a spare part. The Back-to-box function requires a power cycle. If the device remains in an automation application beyond the next power cycle, the entire parameterization is overwritten as if it were a replacement.

Touch Counter Reset

This system command is supported only on Touch Buttons. After performing the Touch Counter Reset command, the Touch Counter value is set to 0.

Parameters and Events

Communication Parameters

The following table lists the communication parameters for the device.

Parameter	Value
IO-Link revision	V1.1
Bit rate	COM2 38.4 kbit/s
Cycle time, minimum	5 ms
Port class	A
SIO mode	No
Block parameterization	Yes
Data storage	Yes

Process Data In (Device to Primary)

This section describes the 24-bit Process Data In mapping from the device to the primary.

- Bit length: 24
- Data type: 24-bit data set (subindex access is not supported)

Subindex	Bit-Offset	Data type	Name	Description
1	16	BOOL	Touch Button Contact N.O. [1]	Touch button state: 0 = Not pressed 1 = Pressed
2	8	BOOL	Touch Button Contact N.C. [1]	Touch button state: 0 = Pressed 1 = Not pressed
3	0	BOOL	Faulted	Device state: Set when at least one hardware failure is present or if any event occurs during power on self test (POST)
4	1	BOOL	Alarmed	Device state: Set when at least one of the monitored values is out of range
5	2	BOOL	Running	Device State: Set when no alarm and no fault is detected

1. Touch Button Contact N.O. and Touch Button Contact N.C. are supported only on touch buttons.

Table 2. Octet 0

Bit-Offset	23	22	21	20	19	18	17	16
Subindex	–	–	–	–	–	–	–	1

Table 3. Octet 1

Bit-Offset	15	14	13	12	11	10	9	8
Subindex	–	–	–	–	–	–	–	2

Table 4. Octet 2

Bit-Offset	7	6	5	4	3	2	1	0
Subindex	–	–	–	–	–	5	4	3

Process Data Out (Primary to Device)

This section describes the 64-bit process data output structure from the primary controller to the device.

- Bit length: 64
- Data type: 64-bit data set (subindex access is not supported)

Subindex	Bit-Offset	Data type	Name	Values
1	56	UINT8	Light Pattern	0 = Off 1 = Steady 2 = Flashing 1 Hz 3 = Flashing 2 Hz 4 = Flashing 3 Hz 5 = Single Pulse 6 = Double Pulse 7 = Triple Pulse 8 = Pulsating
2	48	UINT8	Light Color	0 = Custom 1 = Red 2 = Green 3 = Blue 4 = Amber 5 = Yellow

Subindex	Bit-Offset	Data type	Name	Values
				6 = Cyan 7 = Purple 8 = White
3	40	UINT8	Brightness	0 = 100% 1 = 75% 2 = 50% 3 = 25%
4	32	UINT8	Sounder Tone [2]	0 = Off 1 = 2700 Hz Continuous Tone 2 = 900 Hz Continuous Tone 3 = 2100 Hz Pulse Tone 210 Hz 4 = 900 Hz Pulse Tone 20 Hz 5 = 3500 Hz Pulse Tone 20 Hz 6 = 900 Hz Pulse Tone 1 Hz 7 = 2700 Hz Pulse Tone 1 Hz 8 = 2300...3600 Hz Wobble Tone 0.5 Hz 9 = 3500 Hz Continuous Tone 10 = 1200...800 Hz Alternating Tone 1 Hz
5	24	UINT8	Sounder Volume [2]	0 = High 1 = Low
6	16	UINT8	Custom Color Red PWM Value	0...255
7	8	UINT8	Custom Color Green PWM Value	0...255
8	0	UINT8	Custom Color Blue PWM Value	0...255

Octet	0	1	2	3	4	5	6	7
Bit-Offset	63-56	55-48	47-40	39-32	31-24	23-16	15-8	7-0
Subindex	1	2	3	4	5	6	7	8

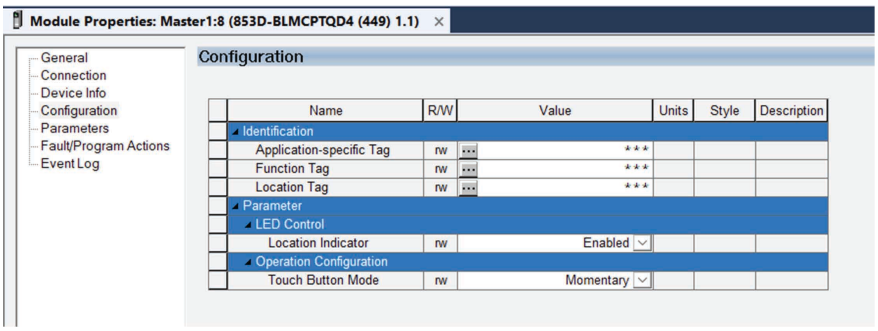
2. Sounder tone and sounder volume applicable only for devices with sounder.

Configuration Parameters

The following table lists the configuration parameters and default settings for the touch button.

Parameter	Name	Description
Operation Configuration [3]	Touch Button Mode	• 0 = Momentary • 1 = Maintained
LED Control	Location Indicator	• 0 = Enabled • 1 = Disabled

Figure 4. Default Configuration Parameters for Touch Button



Device Parameters

This section lists the device parameter index numbers, data types, sizes, defaults, and access rights used for explicit messaging with the device.

When using Explicit Messages to read/write parameter values from/to the device, you must know the Index Number, Data Type, and Size of the data that is transmitted/received in the message. The following table provides this information for each of the device parameters.

Table 5. Device Parameters

Index		Subindex		Off set	Parameter	Length	Value Range	Units	Default	Access Rights	Data Storage	Data Type
2	0x02				System Command	1	129 = Application Reset 130 = Restore Factory Setting 131 = Back-to-box 160 = Touch Counter Reset			WO	No	UintT8
16	0x10				Vendor Name	64	Allen-Bradley			RO	No	StringT[64]
17	0x11				Vendor Text	64	www.ab.com			RO	No	StringT[64]
18	0x12				Product Name	64	Catalog No.			RO	No	StringT[64]
19	0x13				Product ID	64	Catalog No. and series			RO	No	StringT[64]

3. Operation Configuration - Touch Button Mode is supported only on touch buttons.

Table 5. Device Parameters (continued)

Index		Subindex		Offset	Parameter	Length	Value Range	Units	Default	Access Rights	Data Storage	Data Type
20	0x14				Product Text	64	Product description			RO	No	StringT[64]
21	0x15				Serial Number	16				RO	No	StringT[16]
22	0x16				Hardware Revision	16				RO	No	StringT[16]
23	0x17				Firmware Revision	16				RO	No	StringT[16]
24	0x18				Application-Specific Tag	32			***	R/W	Yes	StringT[32]
25	0x19				Function Tag	32			***	R/W	Yes	StringT[32]
26	0x1A				Location Tag	32			***	R/W	Yes	StringT[32]
32	0x20				Error Count	2				RO	No	UintT16
36	0x24				Device Status	1	0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure			RO	No	UintT8
37	0x25	0	0x00		Detailed Device Status	12				RO	No	ArrayT
		1	0x01	72	Detailed Device Status [1]	3	See Table 7: Events on page 20			RO	No	OctetStringT[3]
		2	0x02	48	Detailed Device Status [2]	3	See Table 7: Events on page 20			RO	No	OctetStringT[3]
		3	0x03	24	Detailed Device Status [3]	3	See Table 7: Events on page 20			RO	No	OctetStringT[3]
		4	0x04	0	Detailed Device Status [4]	3	See Table 7: Events on page 20			RO	No	OctetStringT[3]
90	0x5A	0	0x00		Temperature	5				RO	No	RecordT
		1	0x01	32	Actual	1		°C		RO	No	IntT8
		2	0x02	24	Maximum - Since Power Up	1		°C		RO	No	IntT8
		3	0x03	16	Maximum - Since Inception	1		°C		RO	Yes	IntT8

Table 5. Device Parameters (continued)

Index		Subindex		Offset	Parameter	Length	Value Range	Units	Default	Access Rights	Data Storage	Data Type
		4	0x04	8	Minimum - Since Power Up	1		°C		RO	No	IntT8
		5	0x05	0	Minimum - Since Inception	1		°C		RO	Yes	IntT8
91	0x5B	0	0x00		Operating Hours	8				RO	No	RecordT
		1	0x01	32	Operating Hours - Since Inception	4		h		RO	No	UintT32
		2	0x02	0	Operating Hours - Since Power Up	4		h		RO	No	UintT32
93	0x5D				Touch Event Counter	4			0	RO	No	UintT32
94	0x5E				Location Indicator		0 = Enabled 1 = Disabled		0	R/W	Yes	UintT8
105	0x69	0	0x00		Voltage	6				RO	No	RecordT
		1	0x01	32	Actual	2		V		RO	No	UintT16
		2	0x02	16	Maximum - Since Power Up	2		V		RO	No	UintT16
		3	0x03	0	Minimum - Since Power Up	2		V		RO	No	UintT16
212	0xD4				Power Cycles	4				RO	Yes	UintT32
215	0xD7				Touch Button Mode	1	0 = Momentary 1 = Maintained		0	R/W	Yes	UintT8
216	0xD8				Device State	1	1 = Running 2 = Alarmed 4 = Faulted			RO	No	UintT8
217	0xD9	0	0x00		Mirror PD Input	3	PD Input			RO	No	RecordT
		1	0x01	16	Touch Button State		0 = Not pressed 1 = Pressed			RO	No	BooleanT
		2			Reserved							
		3	0x02	0	Device State	1	1 = Running 2 = Alarmed			RO	No	UintT8

Table 5. Device Parameters (continued)

Index		Subindex		Offset	Parameter	Length	Value Range	Units	Default	Access Rights	Data Storage	Data Type
							4 = Faulted					
218	0xDA	0	0x00		Mirror PD Output	8	PD Output			RO	No	RecordT
		1	0x01	56	Light Pattern	1	0 = Off 1 = Steady 2 = Flashing 1 Hz 3 = Flashing 2 Hz 4 = Flashing 3 Hz 5 = Single Pulse 6 = Double Pulse 7 = Triple Pulse 8 = Pulsating		0	RO	No	UintT8
		2	0x02	48	Light Color	1	0 = Custom 1 = Red 2 = Green 3 = Blue 4 = Amber 5 = Yellow 6 = Cyan 7 = Purple 8 = White		0	RO	No	UintT8
		3	0x03	40	Brightness	1	0 = 100% 1 = 75% 2 = 50% 3 = 25%		0	RO	No	UintT8
		4	0x04	32	Sounder Tone	1	0 = Off 1 = 2700 Hz Continuous Tone 2 = 900 Hz Continuous Tone 3 = 2100 Hz Pulse Tone 210 Hz 4 = 900 Hz Pulse Tone 20 Hz 5 = 3500 Hz Pulse Tone 20 Hz 6 = 900 Hz Pulse Tone 1 Hz 7 = 2700 Hz Pulse Tone 1 Hz 8 = 2300...3600 Hz Wobble Tone 0.5 Hz		0	RO	No	UintT8

Table 5. Device Parameters (continued)

Index		Subindex		Offset	Parameter	Length	Value Range	Units	Default	Access Rights	Data Storage	Data Type
							9 = 3500 Hz Continuous Tone 10 = 1200...800 Hz Alternating Tone 1 Hz					
		5	0x05	24	Sounder Volume	1	0 = High 1 = Low		0	RO	No	UintT8
		6	0x06	16	Custom Color Red PWM Value	1	0...255		0	RO	No	UintT8
		7	0x07	8	Custom Color Green PWM Value	1	0...255		0	RO	No	UintT8
		7	0x08	0	Custom Color Blue PWM Value	1	0...255		0	RO	No	UintT8

Diagnostic Data and Events

This section lists IO-Link event types, event codes, and other device error messages for diagnostic data and events.

IO-Link events in the AOP Event Log Tab give a centralized log of diagnostic information, warnings, and errors sent by connected IO-Link devices via the IO-Link primary. These events are communicated asynchronously and independently of the cyclic process data to inform the controller of changes in device conditions. Complementary diagnostic information can be obtained by reading the Detailed Device Status (ISDU 0x25).

Table 6. Event Types

Type	Device Status	Code - Detailed Device Status [1] [1]
Warning	Out of Specification	228
Error	Failure	244

If any Event occurs during POST, the Device Status is set to Failure. Once the situation that causes the Event during POST is resolved, a new power cycle is required to start operation.

Table 7. Events

Code		Description	Code – Detailed Device Status [1] [2]	Code – Detailed Device Status [1] [3]
dec	hex			
6202	0x183A	Temperature Sensor Error	24	58
6203	0x183B	EEPROM Error	24	59
6208	0x1840	Under Voltage	24	64
6209	0x1841	Over Voltage	24	65
62010	0x1842	Under Temperature	24	66
62011	0x1843	Over Temperature	24	67

The following table shows other error messages from the device.

Table 8. Other Error Messages

Code	Description
0x8000	Device application error - no details
0x8011	Index not available
0x8012	Subindex not available
0x8020	Service not available
0x8021	Service not available (local control)
0x8022	Service not available (device control)
0x8023	Access Denied
0x8030	Value out of range
0x8031	Value above limit
0x8032	Value below limit
0x8033	Parameter length overrun
0x8034	Parameter length underrun
0x8035	Function not available
0x8036	Function temporarily not available
0x8040	Parameter set invalid

Table 8. Other Error Messages (continued)

Code	Description
0x8041	Parameter set inconsistent

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, 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)	Get help determining how products interact, check features and capabilities, and find associated firmware.	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 information on its website at rok.auto/pec.

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