

## IQI11-FM Software Release™ Controller and Remote Browser

### INTRODUCTION

This is the software release note for version IQI11-FM Controller. This document details the software version, tool compatibility, connectivity support, new features and enhancements, and upgrade instructions for the release.

**\*\*\*\*Please ensure you are updating both the controller and the tool firmware versions\*\*\*\***

**\*\*\*\*Please update all tools and controllers on the field to this firmware version\*\*\*\***

### 1. Release Information

The following software releases are launched as part of this release package.

| IQI Controller Software |                        |           |
|-------------------------|------------------------|-----------|
| #                       | Description            | Version   |
| 1                       | Application Version    | 1.0.0.273 |
| 2                       | Database Version       | 3.46.1    |
| 3                       | OS Version             | 6.6.31.8  |
| 4                       | Controller Version     | 1.0.0.44  |
| 5                       | Remote Browser Version | 1.0.0.257 |

| TOOL FIRMWARE |                       |                         |
|---------------|-----------------------|-------------------------|
| #             | Description           | Version                 |
| 1             | Communication Version | 1.0.16.0 (IQI2L Series) |
|               |                       | 1.0.42.0 (IQI4L Series) |
| 2             | BLDC Motor Version    | 1.0.16.0 (IQI2L Series) |
|               |                       | 1.0.42.0 (IQI4L Series) |

### 2. New Features and Enhancements

#### New Features

- **Profinet Certification:** Tests passed, certification process completed and certificate issued. New GSDML file (GSDML-V2.43-IngersollRand-InsightIQI-20251021.xml) is available on the Send Safely link where the firmware version is attached.
- **Ethernet IP Setup:** New EDS file (20251125\_INSIGHTqiEIP3\_4\_20.eds) is available on the Send Safely link where the firmware version is attached.
- **Fieldbus Connectivity:** Fieldbus connectivity, previously available only through Port 1, is now supported on both Port 1 and Port 2 for enhanced integration flexibility
- **New Unit inch ounces:** The release introduces support for the inch-ounces unit of measurement for PSET setup. This addition expands flexibility for applications where this unit is commonly used.

- **Global Settings:** Added a new global setting, “Persist IO state on disconnect” under Global Settings, which controls job selection behavior when communication is lost while Interlock and job selection over that communication are enabled. By default (Non-Persistent), the job is unselected and must be re-selected after connection is re-established. When enabled (Persistent), the job remains selected after communication is restored.
- **Factory Reset** has been modified to retain Profinet Settings.
- **Tool overheat protection** has been added through a software upgrade, preventing damage by monitoring temperature and stopping operation when overheating is detected.
- **IQ Stop:** IQ Stop algorithm enhanced to restrict torque overshoot on hard joints, improving tightening accuracy and process control for critical fastening.

### Enhancements

- **Ethernet IP Stability:** Resolved frequent disconnection issues between IQI and Omron PLC NX1P2.
- **Ethernet Cable Handling:** Fixed issue where unplugging the Ethernet cable caused the controller to restart.
- **EthernetIP Feedback:** Corrected problem where EthernetIP could not return job selection and Incycle status.
- **Controller Login:** Addressed issue requiring a reboot after unplugging Ethernet cable without logout.
- **PLC Integration:** Fixed Ethernet IP connectivity issue with customer PLC.
- **PFOP:** Corrected issue where the controller restarted when MES sent an empty or incorrect barcode via PFOP.
- **Ethernet Settings:** After factory reset, Ethernet settings now remain as previously programmed.
- **Multi-Step PSET:** Resolved issue where exceeding torque high limit on the second step (angle step) did not display OK/NOK and Incycle at IO was not reset.
- **Upgrade Progress Indicator:** Added a feature where, during controller upgrades via the web browser, the local screen now displays a progress bar.
- **Download Cycle Results on Remote Browser:** Fixed problem where users were unable to download cycle results from the web interface.

### 3. Controller Upgrade Instructions

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#### SendSafely:

- Controller versions will be available to share from SendSafely platform from below link:

SendSafely Link: [IQI SendSafely Link](#)

Instructions: [IR Tools Help - Updating Firmware](#)

- Ensure to update both the controller firmware version and the tool firmware version

### 4. Revision History

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| Application Version | Date      | Summary of Changes                | Author        |
|---------------------|-----------|-----------------------------------|---------------|
| 1.0.0.254           | 8/13/2025 | New features and issue resolution | Swathi Murali |

|           |            |                                   |               |
|-----------|------------|-----------------------------------|---------------|
| 1.0.0.265 | 10/14/2025 | New features and issue resolution | Swathi Murali |
| 1.0.0.273 | 12/08/2025 | New features and issue resolution | Swathi Murali |