

European Hazardous Location Approval

The following applies to products marked  II 3 G. Such modules:

- 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 Directive 94/9/EC. See the EC Declaration of Conformity at <http://www.rockwellautomation.com/products/certification> for details. The type of protection used is "Ex nA IIC T- or Ex nC IIC T-" according to EN 60079-15. The specific temperature code is marked on the product.
- Are intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air or dust mixtures are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification according to ATEX directive 1999/92/EC.



WARNING: Special Conditions for Safe Use:

- This equipment shall be mounted in an ATEX certified enclosure with a minimum ingress protection rating of at least IP54 (as defined in IEC 60529) and used in an environment of not more than Pollution Degree 2 (as defined in IEC 60664-1) when applied in Zone 2 environments. The enclosure must utilize a tool-removable cover or door.
- This equipment shall be used within its specified ratings defined by Rockwell Automation.
- 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 certified Rockwell Automation backplanes.
- 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



This equipment is intended for use in a Pollution Degree 2 industrial environment, in overvoltage Category II applications (as defined in IEC 60664-1), at altitudes up to 2000 m (6562 ft) without derating. This equipment is not intended for use in residential environments and may not provide adequate protection to radio communication services in such environments.

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 or be approved for the application 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 the following:

- 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 different types of enclosure

Additional Resources

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

Resource	Description
GuardLogix 5570 Controllers User Manual, publication 1756-UM022	Provides information on how to install, configure, program, and use GuardLogix 5570 controllers in Studio 5000™ Logix Designer projects.
GuardLogix 5570 Controller Systems Safety Reference Manual, publication 1756-RM099	Provides information on safety application requirements for GuardLogix 5570 controllers in Studio 5000 Logix Designer projects.
GuardLogix Controllers User Manual, publication 1756-UM020	Provides information on how to install, configure, program, and use GuardLogix 5560 and 5570 controllers in RSLogix 5000 projects.
GuardLogix Controller Systems Safety Reference Manual, publication 1756-RM093	Provides information on safety application requirements for GuardLogix 5560 and 5570 controllers in RSLogix 5000 projects.
Guidelines for Handling Lithium Batteries Technical Data, publication AG-5.4	Provides guidelines for storing, handling, installing, and disposing of lithium batteries.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certification website, http://www.rockwellautomation.com/products/certification	Provides current Declarations of Conformity, Certificates, and full certification details.

Allen-Bradley, GuardLogix, Rockwell Software, Studio 5000, RSLogix, and Rockwell Automation are trademarks of Rockwell Automation, Inc. Trademarks not belonging to Rockwell Automation are property of their respective companies.

Rockwell Otomasyon Ticaret A.Ş., Kar Plaza İş Merkezi E Blok Kat:6 34752 İçerenköy, İstanbul, Tel: +90 (216) 5698400

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core C, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Publication 1756-PC006C-EN-P - December 2012

Supersedes Publication 1756-PC006B-EN-P - July 2012

Battery Removal



This product may contain a lithium battery that needs to be replaced during the life of the product. For instructions on the removal and replacement of the battery, see the GuardLogix Controllers User Manual, publication 1756-UM020. At the end of its life, the battery contained in this product should be collected separately from any unsorted municipal waste. The collection and recycling of batteries helps protect the environment and contributes to the conservation of natural resources as valuable materials are recovered.

Energy Storage Module

This product may contain an energy storage module (ESM).



WARNING: If your application requires an ESM to deplete its residual stored energy to 40 µJ or less before you transport it into or out of the application, use only the 1756-ESMNSE(XT) module for the primary controller and the 1756-SPESMNSE(XT) for the safety partner. In this case, complete these steps before you remove the ESM:

1. Turn off power to the chassis.

After you turn off power to the chassis, the controller's OK status indicator transitions from Green to Solid Red to OFF.

2. Wait at least 20 minutes for the residual stored energy to decrease to 40 µJ or less before you remove the ESM.

There is no visual indication of when the 20 minutes has expired. You must track that time period.

Functional Safety

When marked, the controllers are certified by TÜV Rheinland for Functional Safety: capable of SIL 3, according to IEC 61508, and PLe/Cat. 4 according to ISO 13849-1.

Machinery Directive

The controllers are in conformity with the essential requirements of the Machinery Directive (2006/42/EC) when installed in accordance with the instructions contained in the product documentation. The standards, and technical specifications referred to below have been applied as indicated.

Standard/Technical Specification

EN 60204-1:2006/A1:2009	Safety of machinery - Electrical equipment of machines - Part 1: General requirements
EN ISO 13849-1:2008/AC:2009	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design
EN 62061:2005	Safety of machinery - Functional Safety of safety-related electrical, electronic and programmable electronic control systems

PN-184604

Copyright © 2012 Rockwell Automation, Inc. All rights reserved. Printed in the U.S.A.