



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx UL 15.0035X issue No.:0 Certificate history: _____

Status: **Current**

Date of Issue: **2015-04-28** Page 1 of 3

Applicant: **Red Lion Controls Inc.**
20 Willow Springs Circle
York, PA 17406-8428
United States of America

Electrical Apparatus: **Graphite Series Touchscreen**
Optional accessory:

Type of Protection: **Non-Sparking "nA", Intrinsic Safety "ic", Dust Protection by Enclosure "tc"**

Marking: Ex ic nA IIC T4 Gc
Ex tc IIIC T135°C Dc

-20°C ≤ Ta ≤ 60°C

*Approved for issue on behalf of the IECEx
Certification Body:*

Paul T. Kelly

Position:

Principal Engineer, Global Hazardous Locations

*Signature:
(for printed version)*

Date:

2015-04-28

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Red Lion Controls Inc.**
20 Willow Springs Circle
York, PA 17406-8428
United States of America

Additional Manufacturing location
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition: 4

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
[US/UL/ExTR14.0127/01](#)

Quality Assessment Report:
[US/UL/QAR15.0006/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

These devices are open type Human Machine Interfaces(HMIs) with a touch screen display that use serial communication connections to operate with PLC's, Variable Speed Drives, Temperature Controllers, Bar Code Readers, etc. They are intended to be panel-mounted and only the front face has been investigated as the enclosure and IP54 rating minimum. All Models are to be powered by a Class 2 or limited power supply (LPS). The Accessory Modules are installed using USB expansion ports at the rear cover of the HMIs. These Accessory Modules are communication, input and output modules for the HMI models covered by this report. The modules are secured to the rear cover by two fasteners.

Please see Annex for additional details.

CONDITIONS OF CERTIFICATION: YES as shown below:

The system shall be mounted in an IECEx Certified enclosure with a minimum ingress protection rating of at least IP66 as defined by in IEC 60529 and used in an environment of not more than Pollution Degree 2, as defined by in IEC 60664-1.

These devices have only been evaluated for low risk of mechanical impact.

Provision should be made to prohibit the product from being exposed to UV radiation while in use.

Care should be taken not to rub or buff the touchscreen surface in a way that might cause the accumulation of static charges.

Annex to IECEx UL 15.0035X

Graphite Series Touchscreen HMI, Models G followed by 07, 09, 10, 12 or 15, followed by C, S, or R, followed by 0 or 1, followed by 0 or 1, followed by 0, followed by 0 and U.

U =

- OEM company logo on overlay along with Red Lion unit label
- Software changes not affecting functionality
- Different overlay color

Accessories:

Single PID: GMP1SA00, GMP1SM00

Dual PID: GMP2S000, GMP2SM00

Digital I/O: GMDIOS00

Universal Input: GMUIN400

Analog Output: GMOUT400

Analog Input: GMTTC8000, GMINI800, GMINV800, GMRTD600

Electrical data

G07 Series:

G07C0000 rated 24 Vdc $\pm 20\%$, 9 W typical, 16 W max. (37 W max with 5 accessory modules)

G07S0000 rated 24 Vdc $\pm 20\%$, 10 W typical, 17 W max. (38 W max with 5 accessory modules)

G09 Series:

G09C0000 rated 24 Vdc $\pm 20\%$, 13 W typical, 20 W max. (45 W max with 6 accessory modules)

G10 Series:

G10C0000, G10C0100 rated 24 Vdc $\pm 20\%$, 12 W typical, 19 W max. (48 W max with 7 accessory modules)

G10R0000, G10R0100 rated 24 Vdc $\pm 20\%$, 12 W typical, 19 W max. (48 W max with 7 accessory modules)

G10S0000, G10S0100 rated 24 Vdc $\pm 20\%$, 18 W typical, 24 W max. (53 W max with 7 accessory modules)

G12 Series:

G12C0000, G12C1100 rated 24 Vdc $\pm 20\%$, 16 W typical, 23 W max. (56 W max with 8 accessory modules)

G15 Series:

G15C0000, G15C1100 rated 24 Vdc $\pm 20\%$, 20 W typical, 27 W max. (60 W max with 8 accessory modules)

Accessory Modules (24Vdc powered from Operator Interface Terminal):

GMP1: 1A@30Vdc for solid state relay

GMP2: 1A@30Vdc for solid state relay

GMDIO: 1A@30Vdc for solid state relay

GMUIN: Low voltage output

GMOUT: Low voltage output

GMTTC: Low voltage output

GMINI: Low voltage output

GMINV: Low voltage output

GMRTD: Low voltage output