

# CERTIFICATE OF CONFORMITY



Member of the FM Global Group

## 1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. **Certificate No:** FM16US0074X
3. **Equipment:** OptiSelect & OptiGun Series Applicators, OptiStar Series Control Units  
(Type Reference and Name)
4. **Name of Listing Company:** Gema Switzerland GmbH
5. **Address of Listing Company:** Movenstrasse 17, Saint Gallen CH-9015, Switzerland

6. The examination and test results are recorded in confidential report number:

3044120 dated 30<sup>th</sup> October 2013

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3600:2022, FM 3611:2021, FM 3810:2021, FM 7260:2022, ANSI/IEC 60529:2020, ANSI/UL 61010-1:2012, ANSI/UL 121201:2017

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. **Equipment Ratings:**

The Applicators are for use in Electrostatic Finishing Applications using Class II Spray Materials.

The Control Units are rated for Connection to Electrostatic Finishing Applications using Class II Spray Materials, and for use in Class II, Division 2, Groups F and G, Temperature Class T6, for an ambient temperature range of 32°F to 104°F (0°C to 40°C) Hazardous (Classified) Locations, indoors, with Degree of Protection IP54.

**Certificate issued by:**

J.E. Marquedant  
VP, Manager - Electrical Systems

11 September 2023

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

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11. The marking of the equipment shall include:

For the Applicators:

For Electro. Fin. Appl. CL II, Spray Matl.  
Amb. temp. 32°F to 104°F (0°C to 40°C)

For the Control Units:

CL. II, Div 2, Gp F,G, T6, Ta = 32°F to +104°F (0°C to 40°C)  
IP54

12. **Description of Equipment:**

General – The OptiSelect Series Manual Applicators, OptiGun Series Automatic Applicators, and OptiStar Series Control Units are for use as a part of standalone electrostatic powder spray systems. The OptiSelect® GM03 Electrostatic Manual Powder Applicator is for use with OptiStar® CG09 or CG13 Control units. The OptiGun® GA03 Automatic Applicator is for use with OptiStar® CG08, CG08-C, OptiStar® 4.0 CG20 or CG20-C Control Units. The OptiGun® GA03-P Automatic Applicator is for use with OptiStar® CG12-CP or OptiStar® 4.0 CG24-CP Control Units. The OptiSelect® Pro GM04 Electrostatic Manual Applicator is for use with the OptiStar® GC21 or OptiStar® 4.0 GC23-P Control Units. The applicator and control unit systems are intended to be used in Electrostatic Finishing Applications using Class II Spray Materials.

The OptiStar® CG09, CG08, CG08-C, CG12-P, CG13 and CG21 Control Units and OptiStar® 4.0 CG20, CG20-C, CG23-P and CG24-CP Control Units are rated for Class II, Division 2 Hazardous (Classified) Locations and for connection to Electrostatic Finishing Applications using Class II Spray Materials, with an indoor environmental rating of IP54. Control Units designated with "4.0" include Bluetooth capabilities.

OptiStar® CG08, CG08-C, CG09, CG12-CP, CG13 & OptiStar® 4.0 CG20, CG20-C, CG24-CP Control Units – The control units are rated 100-240Vac, 50/60Hz, 40VA, and provide an output of 0-12Vac to the applicators. The control units are connected to the applicators as described above for maximum electrostatic outputs of 100kV and 100µA.

OptiStar® CG21 & OptiStar® 4.0 CG23-P Control Units – The control units are rated 100-240Vac, 40VA, 50/60Hz and provide an output of 0-12Vac to the applicators. These control units are connected to the OptiSelect® Pro GM04 Electrostatic Manual Applicators as described above for maximum electrostatic outputs of up to 110kV and 110µA.

***OptiSelect Manual Applicators, OptiGun Automatic Applicators, OptiStar Control Units***

When used in the following configurations for use in Electrostatic Finishing Applications using Class II Spray Materials, Temperature Class T6 for ambient temperatures Ta = 32°F to 104°F (0°C to +40°C):

**OptiSelect® GM03 Manual Powder Applicators**

for use with the OptiStar® CG09 or CG13 Control Units

**OptiSelect® Pro GM04 Manual Powder Applicators**

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for use with the OptiStar® CG21 or OptiStar® 4.0 CG23-P Control Units

### OptiGun® GA03 Automatic Applicators

for use with the OptiStar® CG08, CG08-C, OptiStar® 4.0 CG20, or CG20-C Control Units

### OptiGun® GA03-P Automatic Applicators

for use with the OptiStar® CG12-CP or OptiStar® 4.0 CG24-CP Control Units

### OptiStar® CG09, CG08, CG08-C, CG12-CP, CG13 and CG21 Control Units

For use in Class II, Division 2, Group F and G, Hazardous (Classified) Locations, indoors, IP54

### OptiStar® 4.0 CG20, CG20-C, CG23-P and CG24-CP Control Units

For use in Class II, Division 2, Group F and G, Hazardous (Classified) Locations, indoors, IP54

### 13. Specific Conditions of Use:

The source electrical connections for the Control Units are to be connected in an ordinary (non-hazardous) location only.

### 14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

### 15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

### 16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
30 October 2013	Original Issue.
1 August 2016	<u>Supplement 1:</u> Report Reference: – Project ID 3051907 dated 1 <sup>st</sup> August 2016. Description of the Change: Addition of OptiStar® CG08, CG08-C, CG12-CP and CG13 Control Units, OptiGun® GA03, and OptiGun® GA03-P Automatic Applicators.
4 November 2022	<u>Supplement 2:</u> Report Reference: – PR454730 dated 4 <sup>th</sup> November 2022. Description of the Change: Testing and evaluation conducted for addition of OptiSelect® Pro GM04 Applicators and accessories for use with OptiStar® CG21 Control Units. Standards updated to current editions.

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Date	Description
11 September 2023	<u>Supplement 3:</u> Report Reference: RR237437 dated 11 September 2023. Description of the Change(s): Addition of OptiStar 4.0 CG20, CG20-C, CG23-P and CG24-CP Control Units based on similarities to existing Approved design. No testing required. Certificate listings and technical documentation updated accordingly. Listings reformatted for best alignment with new Approval Guide.

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