

# CERTIFICATE OF CONFORMITY

## 1. HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

2. Certificate No: FM17CA0082X
3. Equipment:  
(Type Reference and Name) G5 Weighing Instrument
4. Name of Listing Company: Vishay Precision Group
5. Address of Listing Company: VPG BLH,  
Skrantahöjdsvägen 40,  
691 46, Karlskoga, Sweden

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

3057860 dated 12<sup>th</sup> June 2017

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

CSA C22.2 No. 25:R2014, CSA C22.2 No. 94.1:2015, CSA C22.2 No. 94.2:2015, CSA C22.2 No. 213:2017,  
CSA C22.2 No. 60529:R2021, CSA C22.2 No. 61010-1:2012

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:

See Annex.

11. The marking of the equipment shall include:

See Annex.

Certificate issued by:



J.E. Marquedant  
VP, Manager - Electrical Systems

18 July 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**

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA  
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

F 348 (Apr 21)



## SCHEDULE

Canadian Certificate Of Conformity No: FM17CA0082X



Member of the FM Global Group

### 12. Description of Equipment:

**General** - The G5 Weighing Instruments are single-channel or dual Channel weight indicators (G5\_PM model, panel mounted) or weight transmitters (G5\_RM model, DIN rail mounted) intended for industrial systems. The basic function is to convert the signals from strain gauge transducers to useful weight information. Transducer excitation is included as well as parameter controlled signal processing, indication of output levels, error supervision and operation of optional external equipment.

**Construction** – The G5 electronics are housed in a polymeric enclosure. The G5 Panel Mount provides an operator interface with 31 membrane keys an LCD display and must be installed in the face of a panel enclosure. The G5 Rail Mount is for installation in a suitable enclosure and has no operator interface keypad. Both types contain three circuit board assemblies, Power Board, CPU Board and Analog Board. The 110/230Vac version of the G5\_PM also has an AC Power Supply Board.

**Ratings** - The G5 PM is available in 110-240Vac or 24Vdc version, the G5 RM is only available in a 24Vdc version. The panel mount version is supplied with a Stainless Steel housing for a Type 4X, IP65 rating.

See Annex.

### 13. Specific Conditions of Use:

See Annex.

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

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

### 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
12 June 2017	Original Issue.
27 January 2022	Supplement 1: Report Reference: - RR231119 dated 27 <sup>th</sup> January 2022. Description of the change: 1. CSA C22.2 No.213:2008 updated to CSA C22.2 No.213:2017

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**

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmaprovals.com](mailto:information@fmaprovals.com) [www.fmaprovals.com](http://www.fmaprovals.com)

F 348 (Apr 21)



Page 2 of 5

## SCHEDULE

Canadian Certificate Of Conformity No: FM17CA0082X



Member of the FM Global Group

Date	Description
18 July 2023	<u>Supplement 2:</u> Report Reference: RR236969 dated 18 July 2023. Description of the Change(s): Company address change. Drawing changes which do not affect safety.

FM Approvals

FM Approvals

FM Approvals

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**

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

F 348 (Apr 21)



Page 3 of 5

## **SCHEDULE**

Canadian Certificate Of Conformity No: FM17CA0082X



# **ANNEX**

## **G5\_PM**

### **Equipment Ratings:**

Nonincendive for Class I, II, III Division 2, Groups A, B, C, D, E, F, and G with Non-incendive field wiring connections to Class I, II, III, Division 2, Groups A, B, C, D, E, F, and G hazardous locations in accordance with drawing 401791;

### **Markings:**

Class I, II, III, Division 2, Groups A, B, C, D, E, F, G; T4A Ta = 50°C; Type 4X, IP65  
Nonincendive Field Wiring Connections to Class I, II, III, Division 2, Groups A, B, C, D, E, F, G  
WHEN INSTALLED PER DWG 401791

### **Description of Equipment:**

#### ***G5\_PM\_a\_b\_c\_d. Weighing Instrument.***

a = Channels: S or D.  
b = Power Supply: DC or AC.  
c = Software: W, F, S or Blank.  
d = Enclosure: 1, 2 or 3.

### **Specific Conditions of Use:**

1. The Model G5-PM Weighing Instrument is for use indoor use only.
2. The Model G5-PM Weighing Instrument shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.
3. The USB connection shall not be used in hazardous locations.

## **G5\_RM**

### **Equipment Ratings:**

Nonincendive for Class I, Division 2, Groups A, B, C and D with Non-incendive field wiring connections to Class I, II, III, Division 2, Groups A, B, C, D, E, F, and G hazardous locations in accordance with drawing 401789.

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**

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA  
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

F 348 (Apr 21)



## **SCHEDULE**

Canadian Certificate Of Conformity No: FM17CA0082X



Member of the FM Global Group

### **Markings:**

Class I, Division 2, Groups A, B, C, D; T4A Ta = 50°C;  
Nonincendive Field Wiring Connections to Class I, II, III, Division 2, Groups A, B, C, D, E, F, G  
WHEN INSTALLED PER DWG 401789

### **Description of Equipment:**

**G5\_RM\_a\_b\_c\_d. Weighing Instrument.**

a = Channels: S or D.  
b = Power Supply: DC.  
c = Software: W, F, S or Blank.  
d = Enclosure: 1, 2 or 3.

### **Specific Conditions of Use:**

1. The Model G5-RM Weighing Instrument is for use indoor use only.
2. The Model G5-RM Weighing Instrument shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.
3. The USB connection shall not be used in hazardous locations.

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**

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA  
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmaprovals.com](mailto:information@fmaprovals.com) [www.fmaprovals.com](http://www.fmaprovals.com)

F 348 (Apr 21)



Page 5 of 5