

# CERTIFICATE OF CONFORMITY



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

2. **Certificate No:** FM18US0208

3. **Equipment:** SR-1, SR-1A, SR-1B, SR-1C, SR-1E, SR-1F  
**(Type Reference and Name)** Inspection Robot

4. **Name of Listing Company:** Square Robot Inc.

5. **Address of Listing Company:** 50 D'Angelo Drive, Suite 5  
Marlborough MA 01752  
United States

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

3063093 dated 11<sup>th</sup> November 2018

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

FM Class 3600:2018, FM Class 3611:2018, ANSI/ISA 12.12.01:2015

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:**

Nonincendive for Class I, Division 2, Group D hazardous (classified) locations, with an ambient temperature rating of 0°C to +35°C.

**Certificate issued by:**

J.E. Marquedant  
VP, Manager - Electrical Systems

29 March 2022  
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)

# SCHEDULE



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11. The marking of the equipment shall include:

Class I Division 2, Groups D; T6 Ta = 0°C to +35°C

12. **Description of Equipment:**

**General** - The SR-1, SR-1A, SR-1B, SR-1C, SR-1E and SR-1F Inspection Robots are designed to inspect and measure the floor thickness of In-Service Aboveground Storage Tanks filled with water, diesel, or similar refined products. Communications to the robot are through a fiber optic tether, attached to the robot throughout operation.

**Construction** - The SR-1, SR-1A, SR-1B, SR-1C, SR-1E and SR-1F Inspection Robots main electronics housings are made of aluminum with wet subsystems, connectors and cabling mounted to the housing.

**Ratings** - The SR-1, SR-1A, SR-1B, SR-1C, SR-1E and SR-1F Inspection Robots operates on battery power 26.4 Vdc, 105 Ah, auxiliary power 26-28 Vdc, 5A and charging power of 29 Vdc, 15A. The robots are rated for use in an ambient temperature range of 0°C to +35°C.

***SR-1, SR-1A, SR-1B, SR-1C, SR-1E and SR-1F Inspection Robot***

13. **Specific Conditions of Use:**

None

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.

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# **SCHEDULE**



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## **16. Certificate History**

Details of the supplements to this certificate are described below:

<b>Date</b>	<b>Description</b>
11 <sup>th</sup> November 2018	Original Issue.
23 <sup>rd</sup> May 2019	<u>Supplement 1:</u> Report Reference: - RR218271 dated 23 <sup>rd</sup> May 2019. Description of the Change: Addition of SR-1A model variant.
15 <sup>th</sup> October 2019	<u>Supplement 2:</u> Report Reference: - PR453800 dated 15 <sup>th</sup> October 2019. Description of the Change: Addition of SR-1B model variant.
23 <sup>rd</sup> December 2019	<u>Supplement 3:</u> Report Reference: - RR221636 dated 23 <sup>rd</sup> December 2019. Description of the Change: Addition of SR-1C model variant. Updates to controlled drawings.
18 <sup>th</sup> April 2021	<u>Supplement 4:</u> Report Reference: - PR455012 dated 18 <sup>th</sup> April 2021. Description of the Change: Addition of SR-1E and SR-1F model variants.
29 <sup>th</sup> March 2022	<u>Supplement 5:</u> Report Reference: - RR231707 dated 29 <sup>th</sup> March 2022. Description of the Change: Change to company address. Minor drawing changes not affecting compliance.

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