

1 EU-TYPE EXAMINATION CERTIFICATE



2 **Equipment or Protective systems intended for use in Potentially
Explosive Atmospheres - Directive 2014/34/EU**

3 **EU-Type Examination Certificate No:** FM14ATEX0066X

4 **Equipment or protective system:
(Type Reference and Name)** SPA2IS Site Programmable Alarm

5 **Name of Applicant:** Moore Industries International, Inc.

6 **Address of Applicant:** 16650 Schoenborn Street,
North Hills, California, 91343,
United States of America

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26th February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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

3049394 dated 09th September 2015

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN 60079-0:2012+A11:2013, EN 60079-11:2012 and EN 60079-15:2010

10 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.

11 This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



II (1) G [Ex ia Ga] IIC

II 3(1) G Ex nA [ia Ga] IIC T4 Gc Ta = -40°C to +85°C

Damien McArdle

Damien Mc Ardle
Certification Manager, FM Approvals Europe Ltd.

Issue date: 08th December 2020

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

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SCHEDULE



Member of the FM Global Group

to EU-Type Examination Certificate No. FM14ATEX0066X

13 Description of Equipment or Protective System:

The SPA2IS Site Programmable Alarm with Associated Intrinsically Safe Field Connections provides limit alarms, on/off control, warning of unwanted process conditions and emergency shutdown controls. The device features a metal 55mm case with display, which snaps on to a standard DIN rail. It operates on a universal DC or AC power input and has programmable input/output parameters. The SPA2IS supplies Intrinsically Safe connections that support a variety of sensors in the hazardous area, including thermocouples, and 2, 3, and 4-wire RTDs.

SPA2IS/a/b/U/c [d] Site Programmable Alarm

Electrical Parameters for Intrinsically Safe Field Connections: TPRG

Type	Uo (V)	Io (mA)	Po (mW)	Co (μ F)	Lo (mH)	Lo/Ro (mH/Ohm)
Value (Group IIC)	6.51	7.34	11.94	21.94	660.88	2.98
Value (Group IIB)	6.51	7.34	11.94	499.94	1982.63	11.92
Value (Group IIA)	6.51	7.34	11.94	999.94	5947.88	23.83

Electrical Parameters for Intrinsically Safe Field Connections: HLP RG

Type	Uo (V)	Io (mA)	Po (mW)	Co (μ F)	Lo (mH)	Lo/Ro (mH/Ohm)
Value (Group IIC)	29.05	107.41	727.83	0.01	3.09	0.05
Value (Group IIB)	29.05	107.41	727.83	0.54	9.25	0.20
Value (Group IIA)	29.05	107.41	727.83	1.89	27.74	0.40

a = Input: TPRG or HLP RG

b = Output: 2PRG or 4PRG

c = Options (one or more of the following): -AO, -FMEDA or Blank

d = Housing code: DIN or FLB

14 Specific Conditions of Use:

The equipment shall be mounted in an enclosure providing a minimum degree of protection of IP54 in accordance with EN 60079-15, and in a tool-secured enclosure which meets the requirements of EN 60079-0 and EN 60079-15.

15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

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17 **Schedule Drawings**

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

18 **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
17 th September 2015	Original Issue.
08 th December 2020	<u>Supplement 1:</u> Report Reference: – RR225760 dated 08 th December 2020. Description of the Change: Minor documentation updates. Certificate transferred from FM Approvals Ltd., notified body no. 1725, to FM Approvals Europe Ltd., notified body no. 2809. Minor documentation updates.

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