



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 13ATEX2399X** Issue: **2**

4 Equipment: **IPX2 Air and IPX2 Natural Gas current to pressure transmitters**

5 Applicant: **Moore Industries Intl. Inc.**

6 Address: **16650 Schoenborn St.  
North Hills  
California 91343 – 6196  
USA**

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

8 CSA Group Netherlands B.V., Notified Body Number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 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 the confidential reports listed in Section 14.2.

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

EN 60079-0:2012

EN 60079-11:2012

EN 60079-26: 2007

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 1G

Ex ia IIC T4 Ga

Ta = -40°C to +85°C

Project Number 80042308

Signed: J A May

Title: Director of Operations

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**CSA Group Netherlands B.V.**  
Utrechtseweg 310,  
6812 AR, Arnhem,  
Netherlands



## SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

Sira 13ATEX2399X  
Issue 2

#### 13 DESCRIPTION OF EQUIPMENT

The IPX2 Air and IPX2 Natural Gas devices are current to pressure transmitters (with a maximum supply pressure of 40 psig) that convert a current signal to a pneumatic signal so that an electronic based system such as a DCS, PLC or PC can control a pneumatic actuator, valve or damper.

Each device comprises of an aluminum alloy enclosure with two internal compartments. The upper compartment consists of an intrinsically safe electronics module and has two types of entries - NPT or M20. The lower compartment houses the valve booster assembly (pneumatic parts) and is divided by a threaded barrier plate on which both the electronics module and pneumatic modules are secured. The 4-20mA current input is connected to terminals +PS and -PS by the end user.

The IPX2 Air and IPX2 Natural Gas are very similar in construction. The IPX2 Air is provided with terminals and input wires that will be connected by end user via conduit. The IPX2 Natural Gas is provided with flying leads connected to terminals through a hermetically sealed, threaded, nipple assembly.

The IS module contains two PCBs (PC1 and PC2) and one valve control assembly (PC4). PC1 is a four layer board with primary circuit on top side and secondary circuit on bottom side. PC2 is a small pcb holding a pressure sensor. PC2 is connected to PC1 via flexible tracks. PC4 is a valve coil assembly with two input connections coming from PC1. Electronic module consists mostly of encapsulated electronics.

The device has the following safety parameters when input terminals are connected to a linear, resistive barrier:

$U_i = 30 \text{ Vdc}$        $I_i = 110 \text{ mA}$        $P_i = 0.825 \text{ W}$        $C_i = 720 \text{ pF}$        $L_i = 5.12 \text{ }\mu\text{H}$

**Variation 1** - This variation introduced the following changes:

- i. Recognise drawing changes for the following drawings: 100-100-78, 205-289-01, 170-475-00, 510-521-01, 170-876-00, 170-576-00, 510-523-01, 170-879-00, 170-579-00, 170-833-00, 170-533-00, 208-276-00, 209-203-00, 209-204-00, 801-869-75, 800-801-01, 200-251-2450 and 200-251-2447.
- ii. Update to Product Description to correct typographical error from DLS to DCS.

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexes.

##### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	27 January 2014	R32277A/00	The release of the prime certificate.
1	15 October 2019	1973	This Issue covers the following changes: <ul style="list-style-type: none"> <li>Transfer of certificate Sira 13ATEX2399X from Sira Certification Service to CSA Group Netherlands B.V..</li> <li>EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. (In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</li> </ul>

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6812 AR, Arnhem Netherlands



## SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

Sira 13ATEX2399X  
Issue 2

Issue	Date	Report number	Comment
2	14 September 2020	R80042308A	The introduction of Variation 1.

#### 15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 The enclosure is manufactured from 6063-T5 Aluminium alloy. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation, particularly if the equipment is installed in a Zone 0 location.
- 15.2 The device has the following safety parameters when input terminals are connected to a linear, resistive barrier:
- $U_i = 30 \text{ Vdc}$        $I_i = 110 \text{ mA}$        $P_i = 0.825 \text{ W}$        $C_i = 720\text{pF}$        $L_i = 5.12\mu\text{H}$
- 15.3 The device shall be installed as per Field Installation Drawing 100-100-78.

#### 16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

# Certificate Annexe



Certificate Number: Sira 13ATEX2399X

Equipment: IPX2 Air and IPX2 Natural Gas current to pressure transmitters

Applicant: Moore Industries Intl. Inc.

## Issue 0

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Title
100-100-78	1 to 3	C	24 Jan 14	Field Installation Diagram: IPX2, Intrinsically Safe System for Hazardous 'Classified' Locations
205-289-01	1 to 2	F1	24 Jan 14	IPX2 Housing – Machined, NPT
205-289-05	1 to 2	F1	24 Jan 14	IPX2 Housing – Machined Metric
170-475-00	1 of 1	C	24 Jan 14	Schematic, IPX2
510-521-01	1 to 2	C	24 Jan 14	PC1 fabrication
170-876-00	1 of 1	C	24 Jan 14	PC1 BOM, IPX2
170-576-00	1 of 1	C	24 Jan 14	PC1 Assembly
510-523-01	1 to 2	A	24 Jan 14	PC2 fabrication
170-879-00	1 of 1	A	24 Jan 14	PC2 BOM, IPX2
170-579-00	1 of 1	A	24 Jan 14	PC2 Assembly
504-573-01	1 to 2	D	24 Jan 14	PC4 fabrication
170-833-00	1 of 1	D	24 Jan 14	PC4 – BOM
170-533-00	1 of 1	D	24 Jan 14	PC4 Assembly
208-276-00	1 to 3	C	24 Jan 14	Module, Mechanical Assembly, IPX2
209-203-00	1 to 3	C	24 Jan 14	Case Assy, IPX2 AIR
209-204-00	1 to 3	B4	24 Jan 14	Case Assy, IPX2 -NG
804-003-26	1 of 1	A	24 Jan 14	Wire, pre-cut, Blk EPX2/IPX2
804-004-26	1 of 1	A	24 Jan 14	Wire, pre-cut, Red EPX2/IPX2
801-869-75	1 of 1	A1	24 Jan 14	Pressure sensor, 0-15 PSIG, IP X2
800-801-01	1 to 5	R	24 Jan 14	Spec control drawing
200-251-2450	1 of 1	A	24 Jan 14	Name Plate, IPX2, cCSAus/ATEX (SIRA) I.S.- NG Option
200-251-2447	1 of 1	B	24 Jan 14	Name Plate, IPX2, Air cCSAus/ATEX (SIRA) I.S.and EX-proof

Issue 1 – No new drawings were introduced.

## Issue 2

Drawing	Sheets	Rev.	Date (Stamp)	Title
100-100-78	1 to 3	E	27 Aug 20	Field Installation Diagram: IPX2, Intrinsically Safe System for Hazardous 'Classified' Locations
205-289-01	1 to 2	F3	15 Jul 20	IPX2 Housing – Machined, NPT
170-475-00	1 of 1	D	15 Jul 20	Schematic, IPX2
510-521-01	1 to 2	E	15 Jul 20	PC1 fabrication
170-876-00	1 to 2	D	15 Jul 20	PC1 BOM, IPX2
170-576-00	1 of 1	D	15 Jul 20	PC1 Assembly
510-523-01	1 to 2	D	15 Jul 20	PC2 fabrication
170-879-00	1 of 1	B	15 Jul 20	PC2 BOM, IPX2
170-579-00	1 of 1	B	15 Jul 20	PC2 Assembly
170-833-00	1 of 1	D1	15 Jul 20	PC4 – BOM
170-533-00	1 of 1	D2	15 Jul 20	PC4 Assembly
208-276-00	1 to 3	D	15 Jul 20	Module, Mechanical Assembly, IPX2
209-203-00	1 to 3	D	15 Jul 20	Case Assy, IPX2 AIR
209-204-00	1 to 3	C	15 Jul 20	Case Assy, IPX2 -NG

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# Certificate Annexe



Certificate Number: Sira 13ATEX2399X

Equipment: IPX2 Air and IPX2 Natural Gas current to pressure transmitters

Applicant: Moore Industries Intl. Inc.

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Drawing	Sheets	Rev.	Date (Stamp)	Title
801-869-75	1 of 1	A2	15 Jul 20	Pressure sensor, 0-15 PSIG, IP X2
800-801-01	1 to 3	S	15 Jul 20	Spec control drawing
200-251-2450	1 of 1	A4	15 Jul 20	Name Plate, IPX2, cCSAus/ATEX (SIRA) I.S.- NG Option
200-251-2447	1 of 1	C3	15 Jul 20	Name Plate, IPX2, Air cCSAus/ATEX (SIRA) I.S. and EX-proof

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