



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX EXV 19.0062X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-11-25

Applicant: **Newson Gale Limited**  
Omega House, Private Road 8, Colwick, Nottingham NG4 2JX  
**United Kingdom**

Equipment: **Earth-Rite Multipoint II**

Optional accessory:

Type of Protection: **Increased Safety, Intrinsic Safety, Non-Sparking, Protection by Enclosure**

Marking:

Monitoring Unit	Power Supply Unit
Ex ia IIC T4 Ga	Ex ec [ia Ga] nC IIC T4 Gc
Ex ia IIIC T135°C Da	Ex tb IIIC T65°C Db
Ta = -40°C to +60°C	Ta = - 40°C to +60°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Sean Clarke CEng MSc FIET**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**ExVeritas Limited**  
Units 16-18 Abenbury Way  
Wrexham Ind. Est.  
Wrexham LL 139UZ  
United Kingdom





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Manufacturer: **Newson Gale Limited**  
Omega House, Private Road 8, Colwick, Nottingham NG4 2JX  
**United Kingdom**

Additional  
manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-15:2017** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/EXV/ExTR19.0091/00](#)

Quality Assessment Report:

[GB/EXV/QAR19.0009/00](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Multipoint II Static Earthing System comprises of; the Multipoint II Power Supply Unit, and Multipoint II Monitoring Unit with status indication. The output from the Monitoring Unit is connected to a combination of Static Grounding clamps, Junction Boxes, Indicator Junction Boxes, Marshalling Boxes and Static Earthing points.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- |    |  |
|----|--|
| 1. | The system shall be installed as per the control drawing 'X MPII Q15151' |
|----|--|

## Annex:

[MPII ExVeritas 19.0062X Issue 0.pdf](#)

### Power supply unit (PSU)

Input: 100-230 Vac, 50/60 Hz,  $U_m = 250\text{ V}$

Outputs:

- ten non-intrinsically safe volt-free relay outputs.
- one intrinsically safe output on a CANbus data link via a 4-core cable with the following entity parameters:  
 $U_o = 11.76\text{ V}$      $I_o = 0.413\text{ A}$      $P_o = 0.904\text{ W}$      $C_i = 0$      $L_i = 0$

The external capacitance, inductance and inductance/resistance ratio are as follows:

Gas Group	IIC	IIB	IIA
Co	1.5 $\mu\text{F}$	9.9 $\mu\text{F}$	39 $\mu\text{F}$
Lo	208 $\mu\text{H}$	833 $\mu\text{H}$	1667 $\mu\text{H}$
Lo/Ro	29.1 $\mu\text{H}/\Omega$	117 $\mu\text{H}/\Omega$	234 $\mu\text{H}/\Omega$

The PSU comprises a circuit board, housed in a GRP or a stainless steel enclosure.

The PSU generates two supplies: a +5V I.S. supply which feeds the Monitoring Unit and the CAN transceiver on the PSU board; the second non I.S. supply drives relays, micro and fail safe pump circuit.

### Monitoring Unit

The Monitoring Unit is powered from the Multipoint II PSU. It has eight outputs via Channels 1 to 8. The electronics in the monitoring board are mounted on a PCB, which is housed in a stainless steel enclosure.

#### Input from the MPII PSU (Intrinsically safe)

$U_i = 11.76\text{ V}$      $I_i = 0.413\text{ A}$      $P_i = 0.904\text{ W}$      $C_i = 1.3\ \mu\text{F}$      $L_i = 0$

#### Combined output through Channels 1- 8 – Intrinsically safe

$U_o = 11.76\text{ V}$      $I_o = 0.170\text{ A}$      $P_o = 500\text{ mW}$      $C_i = 0$      $L_i = 208\ \mu\text{H}$

Gas Group	IIC	IIB	IIA
Co	1.5 $\mu\text{F}$	9.9 $\mu\text{F}$	39 $\mu\text{F}$
Lo	1022 $\mu\text{H}$	4088 $\mu\text{H}$	8175 $\mu\text{H}$
Lo/Ro	68 $\mu\text{H}/\Omega$	272 $\mu\text{H}/\Omega$	544 $\mu\text{H}/\Omega$

Channels 1 to 8 are intrinsically safe in combination, so need not be installed as separate intrinsically safe circuits.

**Conditions for Manufacture**

1. The system incorporates previously certified enclosures. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with this device, and the manufacturer shall inform the certification body of any modifications of the device that may impinge upon the explosion safety design of the product.

Certificates	Enclosure
IECEX PTB 07.0059U	Phoenix Mecano Rose Type 34 stainless steel enclosure
IECEX PTB 08.0003U	Phoenix Mecano Rose Type 26 GRP enclosure

2. The following test shall be performed on 100% of transformers. Each transformer shall be dielectric strength tested in accordance with EN 60079-11:2012 clause 11.2 as follows: 1500 Vac shall be applied between the primary and secondary windings for a minimum of 60 s. The maximum current shall not exceed 5 mA and there shall be no evidence of insulation breakdown. Alternatively, the test may be performed at 1800 Vac for a minimum of 1 s.
3. The manufacturer shall supply a copy of the control drawing with every unit placed on the market. This may be a discrete document or part of the user instruction manual.

<b>Manufacturer's documents:</b>			
Drawing No.:	Date:	Rev.	Title:
AA0211-PLC	24/07/2015	R3C	Multipoint II Monitor Board Certified Parts List
AA0211R3C-CERT	24/07/2015	C	Multipoint II Monitor Circuit 8 CH
AA0211R3C-PCB	24/07/2015	C	Multipoint II Monitor Board
AA0220R4A-CERT	24/07/2015	A	Multipoint II O-P Board
AA0220R4A-PCB	24/07/2015	A	Multipoint II O/P Board
AA0220R4A-PLC	06/09/2019	R4B	Multipoint II O/P Board Certified Parts List
X GA MII GRP PSU	14/08/2015	1	General Arrangement - Multipoint II GRP Power Supply Unit
X GA MII MON	14/08/2015	1	General Arrangement - Multipoint II Monitoring Unit
X GA MII SS PSU	14/08/2015	2	General Arrangement - Multipoint II St St Power Supply Unit
X MII MB LAB AI	16/10/2019	AC	Marking for the Earth-Rite Multipoint II Marshalling Box
X MII MON LAB AI	21/10/2019	AE	Marking for the Earth-Rite Multipoint II Monitoring Unit
X MII PSU LAB AI	17/10/2019	AD	Marking for the Earth-Rite Multipoint II Power Supply Unit
X MII Q15151	29/10/2019	4	Multipoint II Static Earth Monitoring - Control Drawing
X MII RIS LAB AI	16/10/2019	AC	Marking Earth-Rite Multipoint II Remote Indicator Station