

## 1 EU - Type Examination Certificate

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

3 Certificate Number: ExVeritas 19ATEX0562 Issue: 2

4 Equipment: Earth-Rite II P2 Static Earthing System – Monitoring Unit

5 Manufacturer: Newson Gale Limited

6 Address: Omega House, Private Road 8, Colwick, Nottingham NG4 2JX, United Kingdom

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

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN IEC 60079-0: 2018


EN 60079-11: 2012

EN 60079-31:2014

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance with 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 shall include the following:

 II 1 G

II 1 D

Ex ia IIC T4 Ga

Ex ta IIIC T<sub>200</sub>70 °C Da

(Tamb = -40 °C to +55 °C)

On behalf of ExVeritas



Peter Lauritzen  
Managing Director

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## Schedule

### 13 Description of Equipment or Protective System

The Earth-Rite II Static Earthing System Monitoring Unit receives an intrinsically safe input from a suitably approved Newson Gale Power Supply Unit and provides an intrinsically safe output for connection to an earth bar and a clamp. The equipment is used where static build-up may occur due to the transfer of powders and liquids and gives a visual indication to indicate satisfactory earthing.

The equipment consists of a single printed circuit board, mounted inside a glass-reinforced plastic enclosure with a window to allow the user to view the status LEDs. The versions of the equipment are as follows:

- single mode monitoring unit (model PLUSP2E)
- tri-mode monitoring unit with additional functionality, which may be vehicle-mounted (model MGVP2E) or terrestrial (model RTRP2E)
- The model FIBCP2E that incorporates an upper FIBC II monitoring unit board

The installation must be in accordance with the relevant control drawing ERII-Q-10175 AI.

The safety description is as follows:

Single mode (PLUSP2E)	Tri-mode (RTRP2E or MGVP2E)		FIBC (Model FIBCP2E)
<b>IS input at PL1</b>	<b>IS input at PL1</b>		<b>IS input at PL1</b>
U <sub>i</sub> = 8.61 V I <sub>i</sub> = 152 mA P <sub>i</sub> = 715 mW C <sub>i</sub> = 5.539 µF L <sub>i</sub> = 12 µH	U <sub>i</sub> = 8.61 V I <sub>i</sub> = 152 mA P <sub>i</sub> = 715 mW C <sub>i</sub> = 4.9 µF L <sub>i</sub> = 8 µH		U <sub>i</sub> = 8.61 V I <sub>i</sub> = 152 mA P <sub>i</sub> = 715 mW C <sub>i</sub> = 5.539 µF L <sub>i</sub> = 12 µH
<b>IS output at PL3/PL4 combined</b>	<b>IS output at PL3/PL4 combined</b>	<b>IS output at PL2</b>	<b>IS output at PL3/PL4 combined</b>
U <sub>o</sub> = 8.61 V I <sub>o</sub> = 41 mA P <sub>o</sub> = 88 mW C <sub>o</sub> = 0.361 µF L <sub>o</sub> = 21 mH	U <sub>o</sub> = 8.61 V I <sub>o</sub> = 60 mA P <sub>o</sub> = 129 mW C <sub>o</sub> = 1 µF L <sub>o</sub> = 9.8 mH	Simple apparatus only	U <sub>o</sub> = 8.61 V I <sub>o</sub> = 0.87 mA P <sub>o</sub> = 8 mW C <sub>o</sub> = 5.9 µF L <sub>o</sub> = 46 H

For all models, intrinsic safety is maintained if the cable connected to any intrinsically safe output terminal does not exceed 100 m.

### 14 Descriptive Documents

#### 14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R2249/A/9	2020-01-17	0	Initial issue of the Prime Certificate
EXV3140A	2021-01-12	1	Transfer of the certificate from ExVeritas UK, Notified Body number 2585 to ExVeritas Denmark, Notified Body number 2804.
R3770/A/3	2022-11-11	2	Incorporate component substitutions and modification to dust marking for EPL Da.

## Schedule

### 14.2 Compliance Drawings:

Drawing Number	Issue	Description	Date
ERII GA 001	6	ERII P2 Monitoring Unit	24/06/2010
AA0195R1B-CERT	B	ERII CR Monitor Board Circuit	18/03/2010
AA0195R1BCB-CERT	A	ERII CR Monitor Board PCB Layout	18/03/2010
AA0195R1BCT-CERT	A	ERII CR Monitor Board PCB Layout	18/03/2010
AA0195R1BSS-CERT	A	RTR II CR Monitor Board PCB Layout	18/03/2010
AA0195R1D-PLC	D	*RTR II CR Monitor Board Certified Parts List	14/02/2022
AA0194R1B-CERT	B	ERII R Monitor Circuit	18/03/2010
AA0194R1BCB-CERT	B	RTR II R Monitor Board PCB Layout	18/03/2010
AA0194R1BCT-CERT	B	RTR II R Monitor Board PCB Layout	18/03/2010
AA0194R1BSS-CERT	B	RTR II R Monitor Board PCB Layout	18/03/2010
AA0194R1B-PLC	B	RTR II R Monitor Board Certified Parts List	11/01/2010
ERII LAB 001	AJ	*CERTIFICATION DETAIL EARTH-RITE II MONITORING UNIT IN GRP ENCLOSURE (P2)	22/08/2022
ERII-Q-10175 AI	5	Earth-Rite II P2 RTR, PLUS and FIBC - Control Drawing - AC Terrestrial (Sheet 1 of 3)	06/10/2011
ERII-Q-10175 AI	5	Earth-Rite II P2 MGV and PLUS – Control Drawing – DC Mobile (Sheet 2 of 3)	06/10/2011
ERII-Q-10175 AI	5	Earth-Rite II P2 RTR, PLUS and FIBC - Control Drawing - DC Terrestrial (Sheet 3 of 3)	06/10/2011
AA0206R3A-CB-CERT	A	FIBC II Board PCB Layout	29/07/2011
AA0206R3A-CERT	A	FIBC II Monitor Circuit	29/07/2011
AA0206R3A-CT-CERT	A	FIBC II Board PCB Layout	29/07/2011
AA0206R3A-PLC	A	FIBC II Monitor Board Certified Parts List	01/09/2011
AA0206R3A-SS-CERT	A	FIBC II Board PCB Layout	29/07/2011

*Note: An \* is included before the title of documents that are new or revised.*

## 15 Conditions of Certification

### 15.1 Special Conditions for Safe Use

- None

### 15.2 Conditions for Use (Routine tests)

- None

## 16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.

Certificate: ExVeritas 19ATEX0562

Issue 2

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