1 EU - Type Examination Certificate

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

3 Certificate Number: ExVeritas 19ATEX0563 Issue: 1

4 Equipment: Earth-Rite II P2 Static Earthing System – Power Supply

5 Manufacturer: Newson Gale Limited

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

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 60079-7: 2018	EN 60079-11: 2012
EN 60079-15: 2010	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 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 shall include the following:

II 3(1)G	Ex ec nC [ia] IIC T4 Gc (Ga)
II 2D	Ex tb IIIC T70°C Db
	(Ta = -40°C to +55°C)

DANAK
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On behalf of ExVeritas

Peter Lauritzen
Managing Director

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13 Description of Equipment or Protective System

The Earth-Rite ER II P2 Static Earthing System Power Supply Unit is intrinsically safe associated apparatus that provides an intrinsically safe output for connection to earth monitoring equipment in the hazardous area. The Power Supply consists of a single circuit board, mounted inside an IP66 GRP enclosure. There are two versions:

- A.C. version (model code ER2PSUA), provides an isolated output from either a 220-240 Vac supply or a 110-120 Vac supply.
- D.C. version (model code ER2PSUD) provides an isolated output from a nominally 12-30 Vdc supply, which may be mains-derived or from a vehicle battery

The installation must be in accordance with the relevant control drawing ERII-Q-10175 AI. The maximum input voltage (Um) is 250 V for both versions. Both versions have the same safety description at the intrinsically safe output at PL4:

Uo = 8.61 V Io = 152 mA Po = 715 mW Co = 5.9 µF Lo = 1.5 mH

13.1 Details of Change

The following changes are introduced in issue 1 of the certificate:

- Transfer of the certificate from ExVeritas UK, Notified Body number 2585 to ExVeritas Denmark, Notified Body number 2804. Certificate number remains unchanged.

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R2249/A/10	2020-01-17	0	Initial issue of the Prime Certificate
EXV3140A	2021-01-12	1	Issue of the first variation, see section 13.1.

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14.2 Compliance Drawings:

Issue 0

Title:	Drawing No.:	Rev. Level:	Date:
ERII P2 Power Supply Unit	ER II GA 002	6	24/06/2010
Label for Earth-Rite II Power Supply in Approved GRP Enclosure	ER II LAB 002	AD	30/10/2019
ERII PSU AC Board	AA0190R3A-CERT	A	25/03/2010
ERII AC Supply PCB Layout	AA0190R3ACB-CERT	A	25/03/2010
ERII AC Supply PCB Layout	AA0190R3ACT-CERT	A	25/03/2010
ERII AC Supply PCB Layout	AA0190R3ASS-CERT	A	25/03/2010
ERII PSU AC Certified Parts List	AA0190R3A-PLC	A	09/04/2010
Transformer Details	BE008-0-01 R3	B	08/04/2010
Transformer Details DC Power Transformer	BE010-0-01 R1C	C	13/04/2010
Earth-Rite II P2 RTR, PLUS and FIBC - Control Drawing - AC Terrestrial (Sheet 1 of 3)	ERII-Q-10175 AI	5	06/10/2011
Earth-Rite II P2 MGV and PLUS – Control Drawing – DC Mobile (sheet 2 of 3)	ERII-Q-10175 AI	5	06/10/2011
Earth-Rite II P2 RTR, PLUS and FIBC - Control Drawing - DC Terrestrial (Sheet 3 of 3)	ERII-Q-10175 AI	5	06/10/2011
ERII DC PSU	AA0189-CERT	2A	15/09/2015
ERII DC PSU Certified Parts List	AA0189-PLC	2A	29/09/2015

15 Conditions of Certification

15.1 Special Conditions for Safe Use

- None

15.2 Conditions for Use (Routine tests)

- 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.
- The manufacturer shall ensure that the relevant control drawing is supplied with each unit or batch of units.

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.

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