

United Kingdom

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

Certificate No .:	IECEx EXV 19.0067	Page 1 of 5	Certificate history:
Status:	Current	Issue No: 1	Issue 0 (2019-12-04)
Date of Issue:	2022-11-11		
Applicant:	Newson Gale Limited Omega House Private Road 8 Colwick Nottingham, NG4 2JX United Kingdom		
Equipment:	Earth-Rite II P2 Static Earthing	System – Monitoring Unit	
Optional accessory			
Type of Protection:	Intrinsic Safety, Protection by E	nclosure	
Marking:	Ex ia IIC T4 Ga		
	Ex ta IIIC T ₂₀₀ 70 °C Da		
	Ta = -40 °C to +55 °C		
Approved for issue	on behalf of the IECEx	Sean Clarke CEng MSc FIET	
Certification Body:			
Position:		Certification Manager	
Signature: (for printed version)			
Date: (for printed version)			
 This certificate and This certificate is n The Status and aut 	schedule may only be reproduced in full. ot transferable and remains the property of th thenticity of this certificate may be verified by	e issuing body. visiting www.iecex.com or use of this QR Code.	
Certificate issue	ed by:		
ExVeritas Lir Units 16-18 Ab Wrexham Ind. I Wrexham LL 13	nited enbury Way Est. 39UZ		ExVeritas [®]



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Date of issue:	2022-11-11		Issue No: 1
Manufacturer:	Newson Gale Limited Omega House Private Road 8 Colwick Nottingham NG4 2JX United Kingdom		
Manufacturing locations:	Newson Gale Limited Omega House Private Road 8 Colwick Nottingham NG4 2JX United Kingdom		
This certificate is issu IEC Standard list bel found to comply with Rules, IECEx 02 and	ued as verification that a s ow and that the manufactu the IECEx Quality system I Operational Documents a	ample(s), representative of productio urer's quality system, relating to the E requirements.This certificate is gran as amended	n, was assessed and tested and found to comply with the ix products covered by this certificate, was assessed and ted subject to the conditions as set out in IECEx Scheme
STANDARDS : The equipment and a to comply with the fo	any acceptable variations llowing standards	to it specified in the schedule of this c	certificate and the identified documents, was found
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres	- Part 0: Equipment - General require	ements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres	- Part 11: Equipment protection by inf	trinsic safety "i"
IEC 60079-31:2013 Edition:2	Explosive atmospheres	- Part 31: Equipment dust ignition pro	otection by enclosure "t"
	This Certificate doe other tha	s not indicate compliance with safety an those expressly included in the Sta	and performance requirements andards listed above.
TEST & ASSESSME A sample(s) of the ed	ENT REPORTS: quipment listed has succes	ssfully met the examination and test r	equirements as recorded in:
Test Reports:			
GB/EXV/ExTR19.00	93/00 G	B/EXV/ExTR22.0017/00	
Quality Assessment	Report:		

GB/EXV/QAR19.0009/04



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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)
- FIBCP2E model that incorporates an upper FIBC II monitoring unit board •

SPECIFIC CONDITIONS OF USE: NO



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Equipment (continued):

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 (FIBCP2E)	
IS input at PL1	IS input at PL1		IS input at PL1
Ui = 8.61 V li = 152 mA Pi = 715 mW Ci = 5.539 μF Li = 12 μH	Ui = 8.61 V Ii = 152 mA Pi = 715 mW Ci = 4.9 μF Li = 8 μH		Ui = 8.61 V li = 152 mA Pi = 715 mW Ci = 5.539 μF Li = 12 μH
IS output at PL3/4 combined	IS output at PL3/4 combined	IS output at PL2	IS output at PL3/4 combined
Uo = 8.61 V Io = 41 mA Po = 88 mW Co = 0.361 µF Lo = 21 mH	Uo = 8.61 V Io = 60 mA Po = 129 mW Co = 1 μF Lo = 9.8 mH	Simple apparatus only	Uo = 8.61 V Io = 0.87 mA Po = 8 mW Co = 5.9 μF Lo = 46 H

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



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

2022-11-11

To introduce substitutions to some safety critical components and incorporate a modification to the dust marking for EPL Da.

Annex:

IECEx_EXV_19.0067 Issue 1 Annex_1.pdf



Routine Tests:

None.

Manufacturer's documents:						
Drawing No.:	Date:	Rev.	Title:			
ERII GA 001	6	ERII P2 Monitoring Unit	24/06/2010			
AA0195R1B-CERT	В	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	А	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	В	ERII R Monitor Circuit	18/03/2010			
AA0194R1BCB-CERT	В	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	В	RTR II R Monitor Board PCB Layout	18/03/2010			
AA0194R1B-PLC	В	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	А	FIBC II Board PCB Layout	29/07/2011			

<u>Note: An * is included before</u> the title of documents that are new or revised.