



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312304001041

Applicant	Newson Gale Limited
Address	Omega House, Private Road 8, Colwick, Nottingham NG4 2JX, UK
Manufacturer	Newson Gale Limited
Address	Omega House, Private Road 8, Colwick, Nottingham NG4 2JX, UK
Production Factory	Newson Gale Limited
Production Address	Omega House, Private Road 8, Colwick, Nottingham NG4 2JX, UK
Product	Earth-Rite ER II
Model/Type	See annex
Ex marking	Ex ec [ia Ga] nC IIC T4 Gc, Ex tb [ia Da] IIIC T70°C Db
Reference Standards	GB/T3836.1-2021, GB/T3836.3-2021, GB/T3836.4-2021, GB/T3836.8-2021, GB/T3836.31-2021

Certification mode Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEX-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (2 pages).

Initial issue date: 2021-05-11

Issued date: 2023-04-29

Valid to: 2026-05-10

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical
Apparatus Research Institute Co., Ltd.



中国认可
产品
PRODUCT
CNAS C208-P

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CN 0001994



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

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Product information:

1. This certificate covers the following models:

- Detailed models refer to the following table:

Product code	Mounting	Power supply	Monitoring unit board
PLUSP1EA*	terrestrial	a.c.	single mode
PLUSP1ED*	mobile or terrestrial	d.c.	single mode
RTRP1EA*	terrestrial	a.c.	tri mode
MGVP1ED*	mobile	d.c.	tri mode
RTRP1ED*	terrestrial	d.c.	tri mode
FIBCP1EA*	terrestrial	a.c.	single mode
FIBCP1ED*	terrestrial	d.c.	single mode

*: none or S, S:Optional Intrinsically Safe switching PCB which is used to switch an external intrinsically safe circuits or signals.

The installation must be in accordance with the relevant control drawing ER11-Q-10174 A1. The maximum input voltage (U_m) is 250 V for all versions. The single mode version provides resistive-only monitoring. The tri-mode version provides capacitive and resistive monitoring. The safety description at the intrinsically safe output of the ER II depends on the version:

RTRP1EA, RTRP1ED & MGVP1ED models		PLUSP1EA & PLUSP1ED models	FIBCP1EA & FIBCP1ED models
Tri-mode IS output at PL3/PL4	Tri-mode IS output at PL2	Single mode IS output at PL3/PL4	Single mode IS output at PL3/PL4
$U_o = 8.61 \text{ V}$ $I_o = 60 \text{ mA}$ $P_o = 129 \text{ mW}$ $C_o = 1.0 \mu\text{F}$ $L_o = 9.8 \text{ mH}$	Simple apparatus only	$U_o = 8.61 \text{ V}$ $I_o = 41 \text{ mA}$ $P_o = 88 \text{ mW}$ $C_o = 0.361 \mu\text{F}$ $L_o = 21 \text{ mH}$	$U_o = 8.61 \text{ V}$ $I_o = 0.87 \text{ mA}$ $P_o = 8 \text{ mW}$ $C_o = 5.9 \mu\text{F}$ $L_o = 46 \text{ H}$

For all models, intrinsic safety is maintained if the cable connected to any intrinsically

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safe output terminal does not exceed 100m.

Optional Intrinsically Safe switching PCB which is used to switch an external intrinsically safe circuits or signals with the following I.S parameters:

Optional IS Switching PCB Terminal PL1
Ui = 30V, Ii = 500mA, Ci = 0, Li = 0

IP Degree: IP66

Ex marking: Ex ec [ia Ga] nC IIC T4 Gc, Ex tb [ia Da] IIIC T70°C Db

- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- Rated ambient temperature range: -40°C~+55°C.
- In locations where high external humidity and internal temperature variations (e.g. frequent on-off cycles) may cause condensation inside the equipment, the interior shall be periodically inspected.
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2011C087, CQST2011C087/01
- Factory inspection report: CN2023Q030172

4. Certificate change information:

- 1st change on April 29, 2023:

Updated the standards for certification.

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