



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312309000479

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 Multipoint II
Model/Type	MP2/*/*
Ex marking	See annex
Reference Standards	GB/T 3836.1-2021, GB/T 3836.3-2021, GB/T 3836.4-2021, GB/T 3836.8-2021, GB/T 3836.31-2021

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 (3 pages).

Initial issue date: 2021-05-10

Issued date: 2023-04-29

Valid to: 2026-05-09

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.



<http://www.ccc-cnex.com>
ccc.china-ex.com

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China P.C.: 473008
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CN 0001997



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

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Product information:

1. This certificate covers the following models:

- MP2/**, Detailed models refer to the following:

MP2/CU/SS, ER MP2/PSU/GRP, ER MP2/PSU/SS, MP2/MBOX4/GRP,
MP2/MBOX4/SS, MP2/MBOX8/GRP, MP2/MBOX8/SS, MP2/RIS/SS, MP2/RIS/GRP

Power supply unit (PSU)

Input: 100-230 Vac, 50/60 Hz, $U_m = 250$ 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:

$U_o = 11.76$ V $I_o = 0.413$ A $P_o = 0.904$ W $C_i = 0$ $L_i = 0$

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

Gas Group	IIC	IIB	IIA
Co	$1.5 \mu F$	$9.9 \mu F$	$39 \mu F$
Lo	$208 \mu H$	$883 \mu H$	$1667 \mu H$
Lo/Ro	$29.1 \mu H/\Omega$	$117 \mu H/\Omega$	$234 \mu H/\Omega$

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.

Issued date: 2023-04-29

Director:

穆大玉



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Monitoring Unit (MU)

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.

Ex marking:

Monitoring Unit	Power Supply Unit (IP66)
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~+60°C	Ta = - 40°C~+60°C

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

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2. Specific conditions of safety use:
 - The system shall be installed as per the control drawing "X MPII Q15151".
 - See instruction for other information.
3. Certificate related report(s):
 - Type test report: CQST2011C088, CQST2011C088/01
 - Factory inspection report: CN2023Q030172
4. Certificate change information:
 - 1st change on April 29, 2023: Updated the standards for certification.

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