



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 19ATEX2073X** Issue: **0**

4 Equipment: **UNI Model MP100 series**

5 Applicant: **mPower Electronics (Shanghai) Co. Ltd.**

6 Address: 66 Chunzhong Road,
Minhang,
Shanghai 201108,
CHINA

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

8 Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012/A11:2013 EN 60079-11:2012

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 1 G
Ex ia IIC T4 Ga
Ta = -20°C to +50°C

Project Number 70211119

This certificate and its schedules may only be reproduced in its entirety and without change.


N Jones
Certification Manager

Sira Certification Service

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 19ATEX2073X
Issue 0

13 DESCRIPTION OF EQUIPMENT

The UNI Model MP100 Series is a portable toxic single gas monitor powered by a single user-replaceable primary lithium cell. It is housed in a non-metallic enclosure (PC) with additional ESD film. It is designed to be hand-held or attached to the person by means of a belt clip. The equipment includes one sensor which can monitor CO, H₂S, SO₂ and O₂ etc. It also incorporates a liquid crystal display as well as an alarm with audible, visual and vibrating modes. It can monitor STEL, TWA, peak and min (for O₂ only) value of the gas and can be displayed on demand.

Battery manufactured by:

mPower battery, PN: 1.17.02.0002, battery voltage Un =3.6V, Um=3.9V;
EVE Energy Co., LTD, type ER14505, battery voltage Un =3.6V, Um=3.9V

Product Model Code Definition

Model Number Code		
UNI MP10	X	Definition
	0	Black housing, real time reading display version
	1	Yellow housing, 12 months count down version, no reading display
	2	Yellow housing, 24 months count down version, no reading display
	3	Yellow housing, 36 months count down version, no reading display

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	11 June 2019	R70211119A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 Before use, ensure that the ESD film on the display is not damaged or peeling.
- 15.2 Only the following batteries may be used in the UNI MP100 series gas monitors:

- mPower battery, PN: 1.17.02.0002
- ER14505 battery, manufactured by EVE Energy Co., LTD.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

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Certificate Annexe



Certificate Number: Sira 19ATEX2073X
Equipment: UNI Model MP100 series
Applicant: mPower Electronics (Shanghai) Co. Ltd.

Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Description
1.17.02.0003-ASY	1 of 1	6	18 Feb 19	MP100 UNIT ASSEMBLY
CER90002	1 of 1	1	18 Feb 19	MP100 Equivalent Diagram
SCH90001	1 to 5	7	18 Feb 19	MP100 (schematic)
PCB90001	1 to 13	6	13 May 19	MP100 Main Board (layout)
CER90007	1 to 11	5	17 May 19	MP100 Main PCB BOM
SCH90002	1 of 1	1	18 Feb 19	Sensor Board (schematic)
PCB90002	1 to 11	1	18 Feb 19	Sensor Board (layout)
1.17.02.0068	1 of 1	1	18 Feb 19	Sensor Board BOM
CER90085	1 of 1	1	13 May 19	Label

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