

EU-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**

[3]

EU-Type Examination Certificate Number: **DEMKO 19 ATEX 2301X Rev. 0**

[4]

Product: **NEO Portable VOC Gas Detector**

[5]

Manufacturer: **mPower Electronics (Shanghai) Co., Ltd.**

[6]

Address: **Building 2, 66 Chunzhong Rd., Minhang District, Shanghai, 201108 China**

[7]

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no. **4789230554.1.1**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-11:2012

[10]

If the sign "X" is placed after the certificate number, it indicates that the product 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 and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12]

The marking of the product shall include the following:

 **II 1 G Ex ia IIC T4 Ga**

Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2019-11-21

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 19 ATEX 2301X Rev. 0

[13]

[14]

[15]

Description of Product

The MP18X is a portable, VOC gas detector for volatile organic compounds. It is intended to be powered by a lithium ion battery pack manufactured by mPower Electronics (Shanghai) Co., Ltd with part number M011.3002.000. The circuits of the product are comprised of a main board and a sensor board. The main board provides the power, LCD driver, data process, sampling and alarm. The sensor board provides the detection capabilities.

Nomenclature:

MP18 *

0-9

Performance testing

The measuring function of the product for explosion protection, according to Annex II clause 1.5.5, 1.5.6 and 1.5.7 of the Directive 2014/34/EU is not covered in this certificate.

Temperature range

The ambient temperature range is -20 °C to +50 °C.

Electrical data

3.7V Battery Powered

Um = 6V (charging and USB port)

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17]

Specific conditions of use:

1. The detector shall be recharged in non-hazardous area.
2. The battery pack can only be replaced in non-hazardous area. The battery pack shall be provided by mPower Electronics (Shanghai) Co., Ltd with part number M011.3002.000.
3. The charging temperature shall be 0°C~+45°C.
4. During charging, the maximum voltage Um 6V shall be observed.
5. Observe warnings: "DO NOT CHARGE THE BATTERY IN HAZARDOUS LOCATION!" and "SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY"

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

Accredited by DANAK under registration number 7011 to certification of products.