

# **UNI 321**

Quick Start Guide



#### mPower Electronics Inc.

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PN: M001-4030-000 v1.2

# **Read Before Operating**

The User's Guide must be carefully read by all individuals who have or will have the responsibility of using, maintaining, or servicing this product.

The product will perform as designed only if it is used, maintained, and serviced in accordance with the manufacturer's instructions.

#### **User Interface**

The UNI 321's user interface consists of the LCD display, LEDs, an alarm buzzer, two keys: Left Key [Confirm/Number increasing] and Right Key [Power/Cursor moving], an alligator clip, and a sensor.



# **▲** Warning

- Never operate the detector when the cover is removed.
- Remove the detector cover and battery only in area known as non-hazardous.
- Use only mPower's lithium battery part number 1.17.02.0002 (3.6V, 2700mAH, AA size) or part No. ER14505 cell manufactured by EVE Energy Co., LTD
- This instrument has not been tested in an explosive gas/air atmosphere having an oxygen concentration greater than 21%.
- Substitution of components may impair suitability for intrinsic safety.
- · Substitution of components will void warranty.
- It is recommended to bump test with a known concentration gas to confirm the instrument is functioning properly before use.
- Before use, ensure that the ESD film on the display is not damaged or peeling.

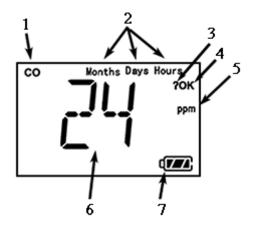
# Avertissement

- N'utilisez jamais le moniteur lorsque le couvercle est enlevé.
- Retirer le couvercle du moniteur et la batterie uniquement dans une zone connue comme non dangereuse.
- Utilisez uniquement la batterie au lithium de mPower, pièce No. 1.17.02.0002 (3.6V, 2700mAH, taille AA) ou celle deEVE Énergie Cie., Lté, pièce No. ER14505.
- Cet instrument n'a pas été testé dans une atmosphère explosive gaz / air ayant une concentration en oxygène supérieure à 21%.
- La substitution de composants compromettra l'aptitude à la sécurité intrinsèque.
- La substitution des composants annulera la garantie.
- Il est recommandé de tester avec un gaz de concentration connu pour confirmer que l'instrument fon ctionne correctement avant de l'utiliser.
- Avant de l'utiliser, assurez-vous que le film ESD sur l'écran n'est pas endommagé ou épluché.

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# **Display**

- 1. Gas name, includes: CO, H<sub>2</sub>S, O<sub>2</sub>
- 2. Remaining time unit: Months, Days or Hours
- 3. Question mark
- 4. Unit status indicator "OK"
- 5. Gas concentration unit, for alarm setting display
- 6. Remaining operation time
- 7. Battery status



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## **Turning the Unit On**

Press and hold the Right Key for 3 seconds, until unit LCD displays "on", the buzzer beeps, and the green LED is on. After power on, the unit enters a warm up and self-test sequence, and then enters normal mode. Once the unit is turned on, it runs continuously until the remaining life time ends, and cannot be turned off.

#### Normal mode

In normal mode, unit starts monitoring gas concentration. LCD displays the remaining life time when there's no gas alarm. When there's gas alarm, LCD will show the gas setting level according to alarm type: low alarm or high alarm.

#### **Enter Config Mode**

Press and hold the Left Key and the Right Key together for 3 seconds, the unit enters config mode. The LCD displays "PWD" to prompt password entry. To input a password, use the Left Key to increase the number, and the Right Key to move the cursor. After all four digits are input, the cursor will move to "OK". Use the Left Key to exit password input and enter config mode.

# **Exit Config Mode**

When LCD displays "Exit?", press the Left Key to exit from config mode back to normal mode.

#### **Maintenance and Service**

The UNI 321 is maintenance free.

#### Year of Manufacture

The year of manufacture can be identified by the fifth and sixth digits of the instrument serial number. For example, 16 indicates that the unit was made in 2016.

#### **Intrinsic Safety**

UL/cUL:

Class I, Group A,B,C,D Class II, Group E,F,G

Class III; T4,  $-20^{\circ}$ C  $\leq T_{amb} \leq 50^{\circ}$ C

# **UNI321 Factory Calibration Certificate**

The instrument was factory inspected, tested and calibrated in accordance with the conditions and requirements of our registered Quality System, Operating Standards and Sales Agreements.

#### Zero (Fresh Air) Calibration

Zero calibration is to get the base line for the sensor and is done in fresh air. When the LCD displays "AiR", press the Left Key to start zero calibration. Unit will start 15 seconds count-down is finished, zero calibration result "pass" or "fail" will be displayed.

To abort zero calibration during the 15-second count-down, press the Right Key and the display acknowledges with "AbRt".

## **Bump Test**

A recorded Bump Test can only be done using a MP300 Cali-case with mPower Suite software. Please refer to the software user guide. A manual bump check can be performed by applying test gas and verifying that the alarms are triggered.

## **Daily Self Test**

- 1. Press the Left Key
- 2. Confrm that the following tests are performed:
  - a) LED flashes, Buzzer beeps, Vibrator is on
  - b) All LCD segments are shown
  - c) High and Low alarm settings are shown
  - d) Peak reading is shown if it occurred during the last 24 hours.
  - f) Minimum Oxygen reading is shown if it occurred during the last 24 hours.
  - g) Display returns to normal mode.

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# Proper Product Disposal at The End Of Life



The Waste Electrical and Electronic Equipment (WEEE) directive (2002/96/EC) is intended to promote recycling of electrical and electronic equipment and their components at the end of life.

This symbol (crossed-out wheeled bin) indicates separate collection of waste electrical and electronic equipment in the EU countries. This product may contain one or more nickel-metal hydride (NiMH), lithium-ion, or alkaline batteries. Specific battery information is given in this user guide. Batteries must be recycled or disposed of properly. At the end of its life, this product must undergo separate collection and recycling from general or household waste. Please use the return and collection system available in your country for the disposal of this product.

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