

## Standalone/Addressable/Convention/Wireless Combustible Gases Detector AW-D132/D132A/D132C-4W/D132W

-----Please read this manual carefully before installing and using the product -----

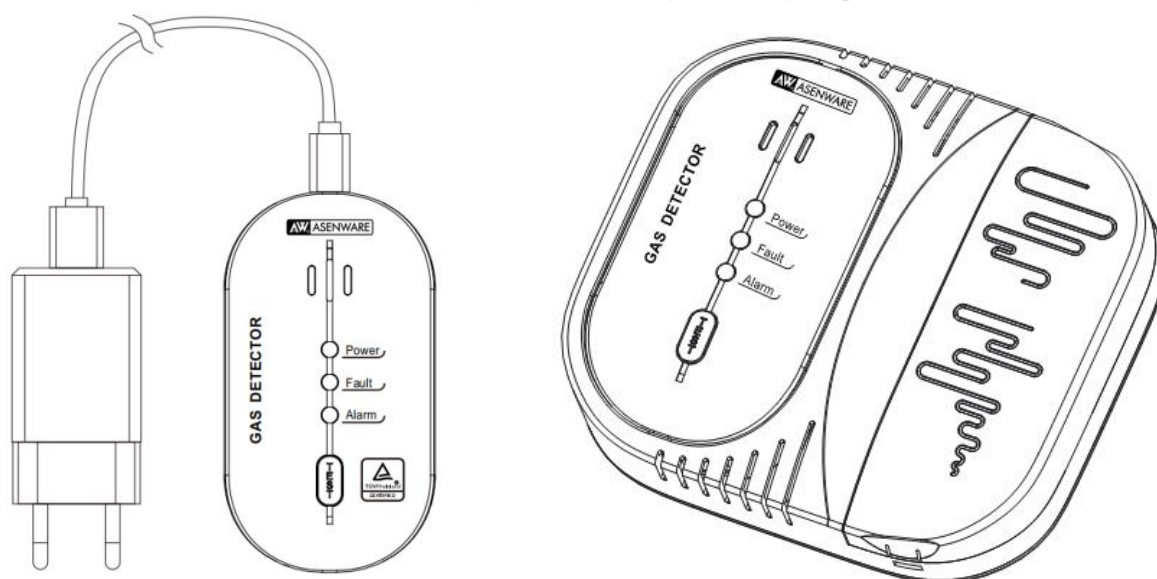


Figure 1

### 1. Overview

AW-D132 series detectors are designed for combustible gases detection. The product is small and compact, and the design and color are suitable for home use and small commercial properties. Valve and relay output will be provided when gas leakage reaches the alarm level. There are different kinds of models for different applications. LPG (Propane and Butane) or LNG (Methane) can be detected.

The AW-D132 can be used with a multi-function base. It not only ensures the original characteristics of a sensitive alarm and stable operation, but also integrates many new functions, making it more convenient and professional to use (Figure 1).

### 2. Order Information

Model No.	Name	Gas Detection Type
AW-D132 (LPG)	Standalone LPG detector	LPG (Propane and Butane)
AW-D132A (LPG)	Addressable LPG detector	
AW-D132C-4W (LPG)	Convention LPG detector	
AW-D132W (LPG)	Wireless LPG detector	
AW-D132 (LPG type With AC/DC Base)	AC/DC Type LPG Gas Detector	
AW-D132 (LPG type With AC Base)	AC Type LPG Gas Detector	
AW-D132 (LPG type With DC Base)	DC Type LPG Gas Detector	
AW-D132 (LNG)	Standalone LNG detector	LNG (Methane)
AW-D132A (LNG)	Addressable LNG detector	
AW-D132C-4W (LNG)	Convention LNG detector	
AW-D132W (LNG)	Wireless LNG detector	
AW-D132 (LNG type With AC/DC Base)	AC/DC Type LNG Gas Detector	
AW-D132 (LNG type With AC Base)	AC Type LNG Gas Detector	
AW-D132 (LNG type With DC Base)	DC Type LNG Gas Detector	

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### 3. Product Features

- 3.1 LPG/LNG gas detection available
- 3.2 Loud 85 dB alarm and LED indicator warning light
- 3.3 Self-diagnostic function by MCU intelligent software
- 3.4 Excellent reliability & high stability
- 3.5 Ideal for all kitchens
- 3.6 Up to 10 years of maximum working life

### 4. Technical Parameters

<b>Operating Voltage</b>	AW-D132	DC 5V (With AC adaptor)
	AW-D132W	
	AW-D132A	DC 24V
	AW-D132C-4W	DC 12-24V
	AW-D132 with multi-function base	100-240Vac 50-60Hz or DC 9-28Vdc
<b>Alarm Gas Concentration Value</b>	LPG type detector	Propane 1890ppm (9%LEL) Butane 1900ppm (10%LEL)
	LNG type detector	Methane 3500ppm (7%LEL)
<b>Rated Power</b>	≤2W	
<b>Alarm Output</b>	Valve output (V-OUT)	DC12V pulse voltage
	Relay output carrying capacity (RELAY)	0.5A @DC30V / AC220V (without base)
<b>Detection Angle</b>	≤120°	
<b>Alarm SPL</b>	≥85dB @3m	
<b>Alarm in (Terminal)</b>	Dry Contact Input, relay/switch can be connected	
<b>Operating Temperature</b>	-10℃ ~ 40℃ 5% to 95% RH (non-condensing)	
<b>Application</b>	AW-D132	Standalone
	AW-D132C-4W	Operates with conventional panel
	AW-D132A	Operates with addressable panel
	AW-D132W	Operates with addressable panel with wireless transmitter
	AW-D132 with multi-function base	Standalone or multiplexed
<b>Standard Number Ref</b>	EN50194-1:2009	
<b>Shell Material and Color</b>	ABS, white	
<b>Size</b>	104.5mm* 58mm* 29mm	
<b>Weight</b>	About 62g (without base)	
	About 200g (with base)	

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**5. Indicator and Terminal Introduction**

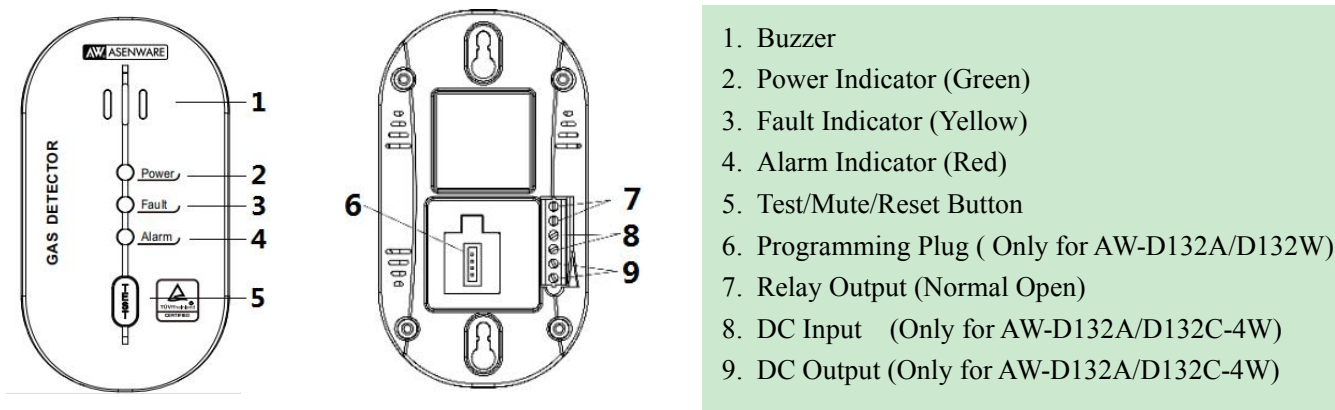


Figure 2

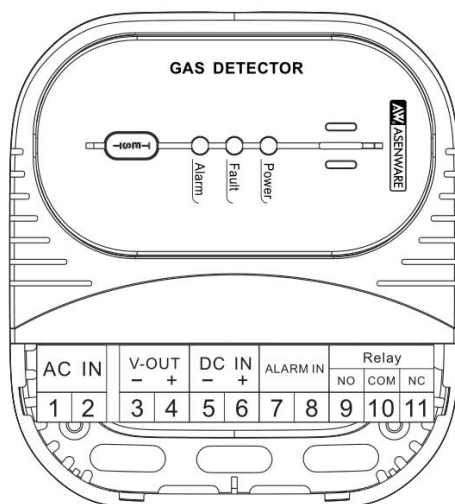


Figure 3

5.1 Power connection

5.1.1 AC power connection

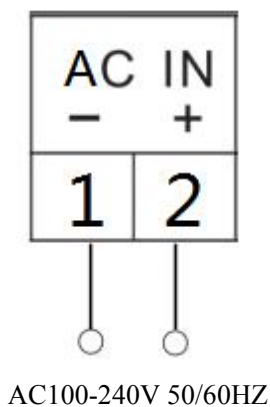


Figure 4

5.1.2 DC power connection

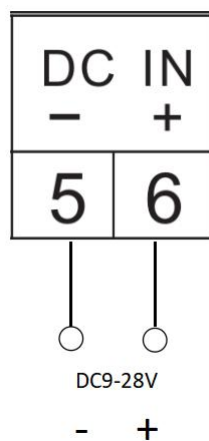


Figure 5

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### 5.2 Cut off valve connection (Terminal 4 for positive, Terminal 3 for negative)

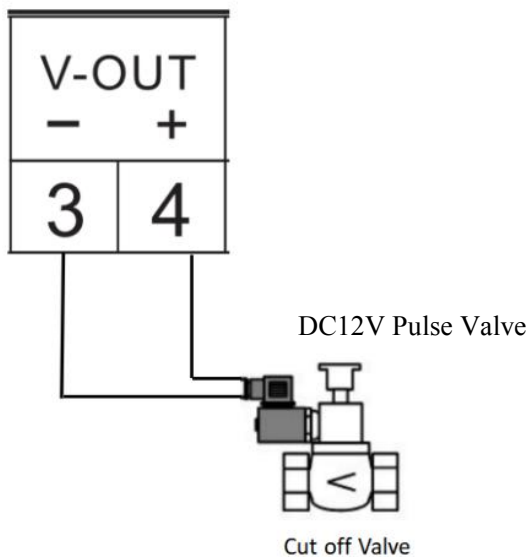


Figure 6

### 5.3 Relay connection

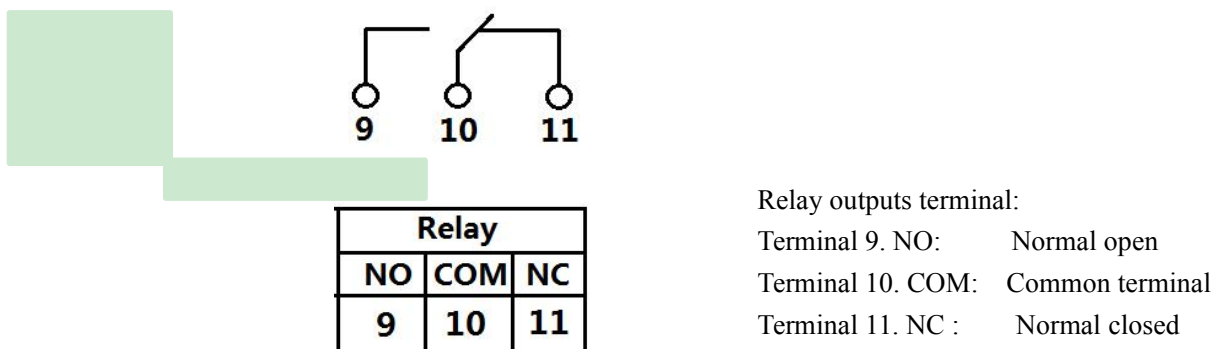


Figure 7

### 5.4 Multiple detectors interconnection

Terminal “Alarm In” is used for multiple devices interconnection. One device is used as master, Other devices are slaves.

Terminal “ 9 ” and “10” on slave device should be connected with master device’s terminal “Alarm In”. When slave devices alarm occurs, Relay terminal will be closed and master device can detect the alarm signal from terminal “Alarm In”. Then all alarm output on master device will be activated. Please refer to Figure 8.

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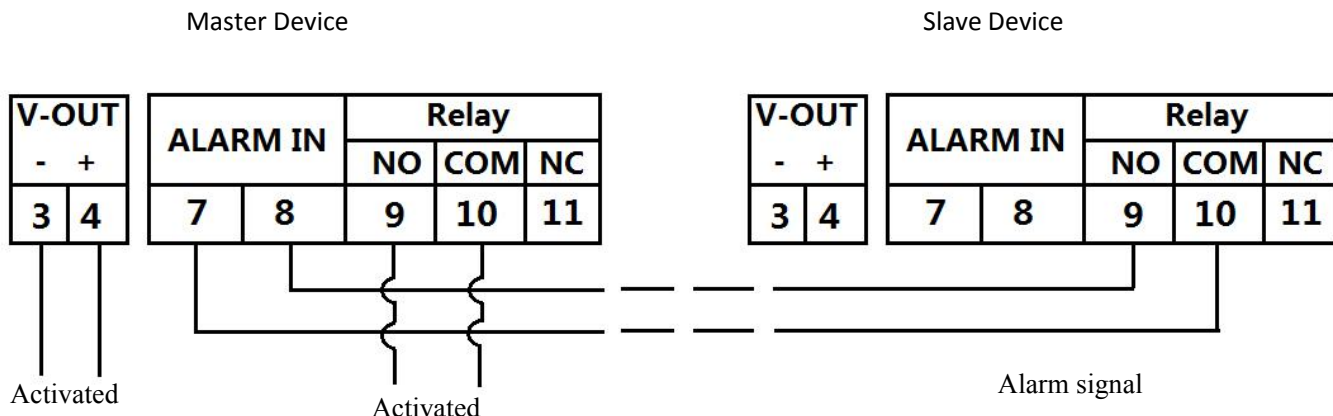
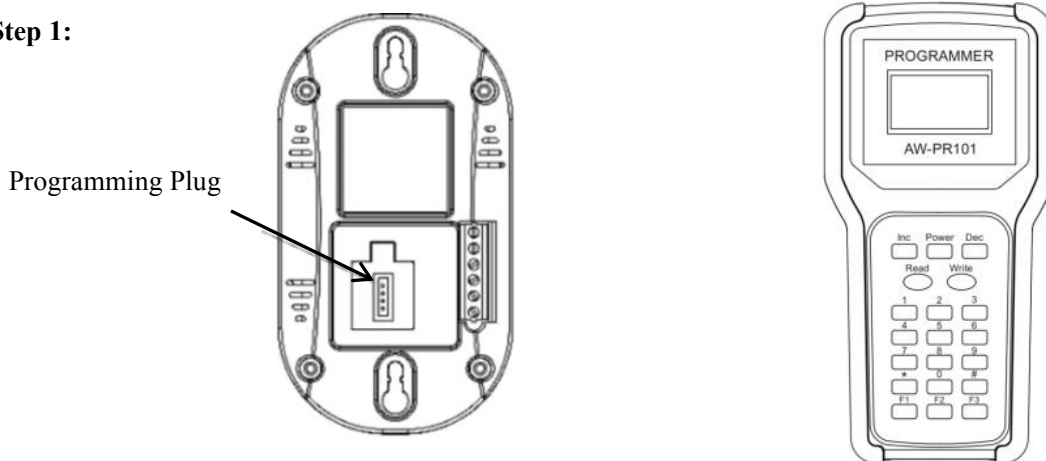


Figure 8. Multiple detectors interconnection

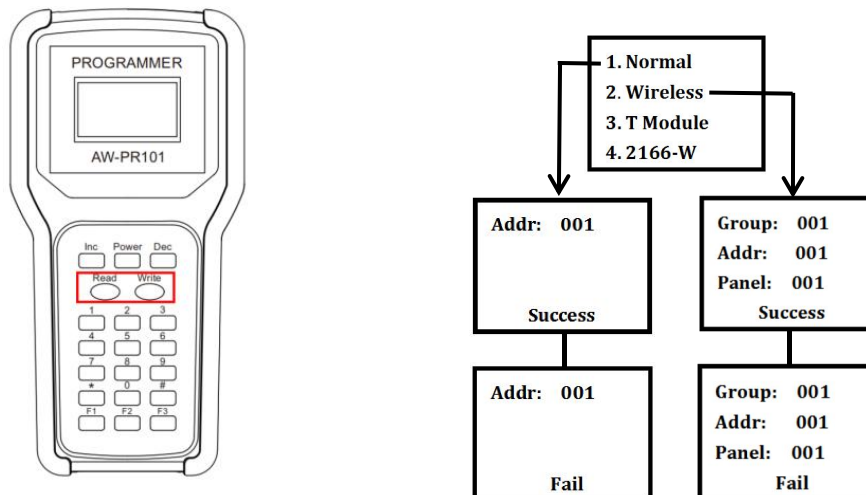
**6. Detector Programming Procedure (For AW-D132A or AW-D132W)**

Step 1:



- A. Connect detector to programmer by cable through programming plug.
- B. Hold “power” button to power on programmer.

Step 2:



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- A. For AW-D132A, Please press '1' for selecting '1. Normal'
- B. For AW-D132W, Please press '2' for selecting '2. Wireless'
- C. Press 'Write' for writing address,
- D. 'Success' will be shown when it is done. Otherwise 'fail' will be shown.
- E. Press 'Read' for reading address,
- F. 'Success' will be shown when it is done. Otherwise 'fail' will be shown.
- G. Note: Press 'F1' for Group, 'F2' for Addr, 'F3' for Panel.

## 7. Installation and Instruction

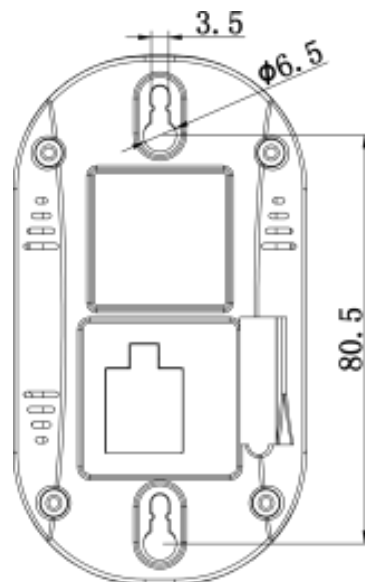


Figure 10. Install Dimension

7.1 The gas detector can be mounted on the wall.

7.2 Because of the difference air density of LPG/LNG, please noted that different gas type detectors are with different installation position. LNG type detector is installed on high location. LPG type detector is installed on low location. Please refer the figure 11.

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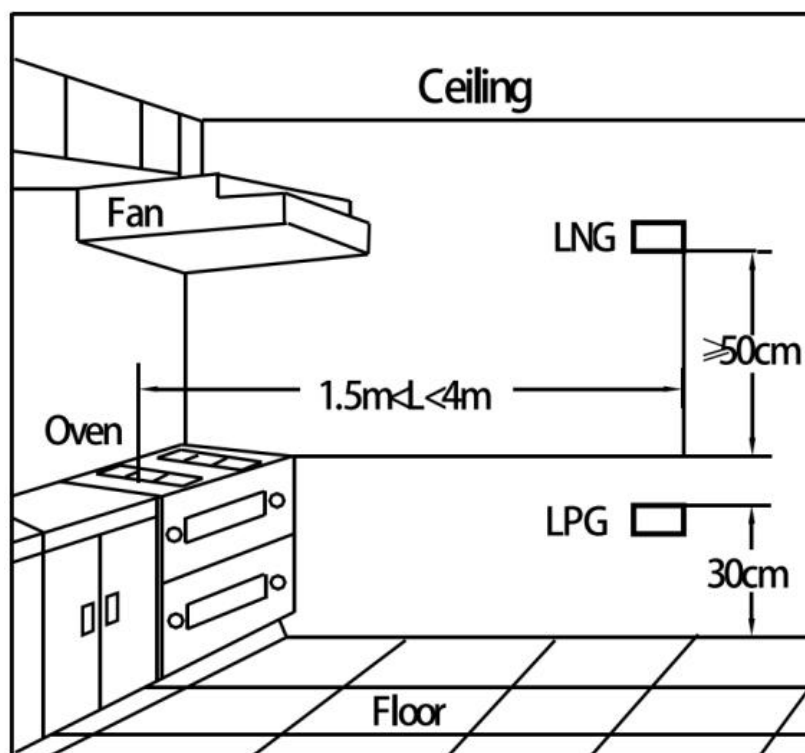


Figure 11. Install Location

## 8. Mode and Operation Introduction

**Normal:** When the device is in a normal state, the green LED indicator is on, and the other LED indicators are off.

**Fault:** When the detector is in fault state, the yellow LED indicator flashes slowly. After troubleshooting, the device will return to its normal state.

**Alarm:** When the detected gas leakage reaches the alarm level, the red alarm indicator will be on and the buzzer will sound. Usually, the default models are relay and pulse voltage outputs.

**Test:** In a normal state, press the test button, the unit makes a sound. The three LED indicators will light up once, the buzzer will beep twice, and there will be no signal output. In order to ensure the normal operation of the gas detector, you should test it once a week

**Mute: (Only for model AW-D132)** When in alarm state, shortly press the button to silence the sound. The yellow LED indicator lights up, and then shortly press to cancel the silence. The yellow LED indicator returns to its original state.

**Reset: (Only for model AW-D132):** When the button is pressed for more than 3 seconds, the detector resets, the alarm indicator is off, and the buzzer stops sounding and then enters the preheating state.

## ***Standalone/Addressable/Convention/Wireless Combustible Gases Detector AW-D132/D132A/D132C-4W/D132W***

### **9. Regular Testing**

It is recommended that the installer check the working situation of the detector at least once a year.

Test weekly:

Press test button, the LED indicator will illuminate and the buzzer will beep. To ensure that the gas detector is working properly, it is recommended that it should be tested once a week.

Regular maintenance to keep the detector in a good working situation: test it weekly using the "Test" button.

Clean the detector cover at least twice a year with a soft brush.

**Note: Do not use pure gas, e.g. lighter gas, directly on the sensor as it can cause irreparable damage to the sensor.**

### **10. Security instructions**

It is recommended that in the event of an alarm sounding or having a smell of gas even if there is no alarm: remain calm and carry out the following actions, but not necessarily in the order given:

10.1 Extinguish all open fires, including all smoking materials;

10.2 Switch off all gas appliances;

10.3 Not switch on or off any electrical equipment, including gas detection equipment;

10.4 Open windows and doors to increase ventilation then switch off the gas supply and/or any gas storage tanks at the main gas control;

10.5 Do not use a telephone in a building where gas is suspected;

10.6 If the alarm continues to operate, even if an alarm reset operation has been appropriately carried out, and the cause of the leak is not apparent and/or cannot be rectified, evacuate the site immediately;

10.7 Notify the gas supplier and/or the Gas Emergency 24-hour service so that the installation can be tested and secured and any necessary repairs carried out.



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