

[GAS DETECTOR & SHUTOFF SYSTEM]

REFERENCE MANUAL

MODEL: EW-206 (15A.20A.25A)



[NOTICE]

- Surely be aware of the specifications by skilled worker prior to using the product.
- Surely keep the specifications to where you are always able to see.

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1. 제품사양

1-1. CONTROL PANEL

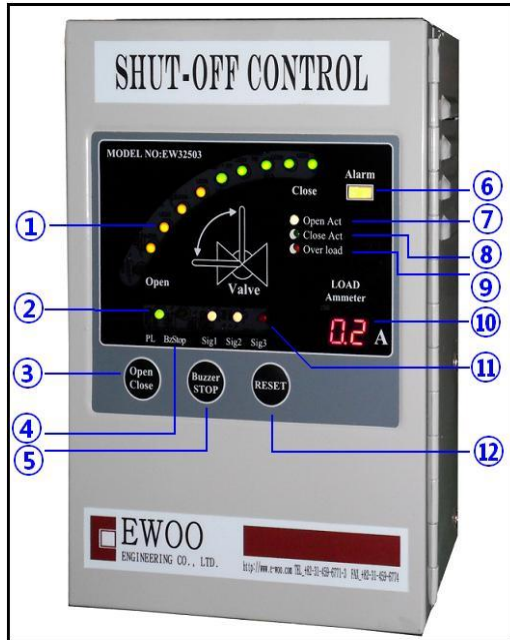
Model & Diameter of gas pipe	15A	20A	25A
Power supply	AC 220V 60Hz		
Operating temperature	-10°C~40°C		
Operating Humidity	85% Rh		
Current output	DC 12V		
Visual alarm	OPEN: YELLOW LED/ CLOSE: GREEN LED		
Audible alarm	Buzzer sound (above 70dB)		
Current. Signal input	DC 5~15V 6channel		
Dimensions	144x258x88mm		
Weight			

1-2. SHUTOFF DEVICE

Diameter of gas pipe	15A	20A	25A
Operating power	DC 12V		
Valve type	Screw type ball valve		
Torque	2,330:1		
Response time	10sec		
Angle	90°		
Gear material	Kocetal		
Housing material	BADY: ABS. CLAMP: Nylon glass		
Operating temperature Operating humidity	-10°C~40°C. 85% Rh		
Wire	2wire RED(+) BLACK(-)		
Mounting	Clamping at pipe		
Dimensions	70x115x138mm	70x115x140mm	70x115x155mm
Weight	332g	326g	360g

2. PART & FUNCTIONS

2-1. CONTROL PANEL



① Progress light: It displays the progress of the shutoff Device (The light is not lit if the shutoff device is Disconnected) with the control panel. Or the fuse has Blown)

② Main power light: Green LED is it while Supplied by AC220V

③ Open & Close button: If the button is pressed one Time, The shutoff device gets opened. And if it is Pressed again, the shutoff device gets closed again.

④ Alarm mute warning light: Yellow LED blinks If the Buzzer stop button is pressed. And during this Time, the audible Alarm is mute in spite of the Alarm condition And if the button is pressed again,

the light is eliminated and the Buzzer becomes audible again.

⑤ Alarm mute button: It allows the user to silence the buzzer when it's alarm condition. If pressed one Time buzzer becomes Mute, and pressed again, buzzer becomes audible again.

⑥ Warning light: Yellow LED gets lit when the alarm has been input.

⑦ OPEN light: It is lit while the shutoff device is actuating to open the valve. Or the shutoff device Has been opened.

⑧ CLOSE light: It is lit while the shutoff device is actuating to close the valve. Or the shutoff device Been closed (please refer to chapter 4)

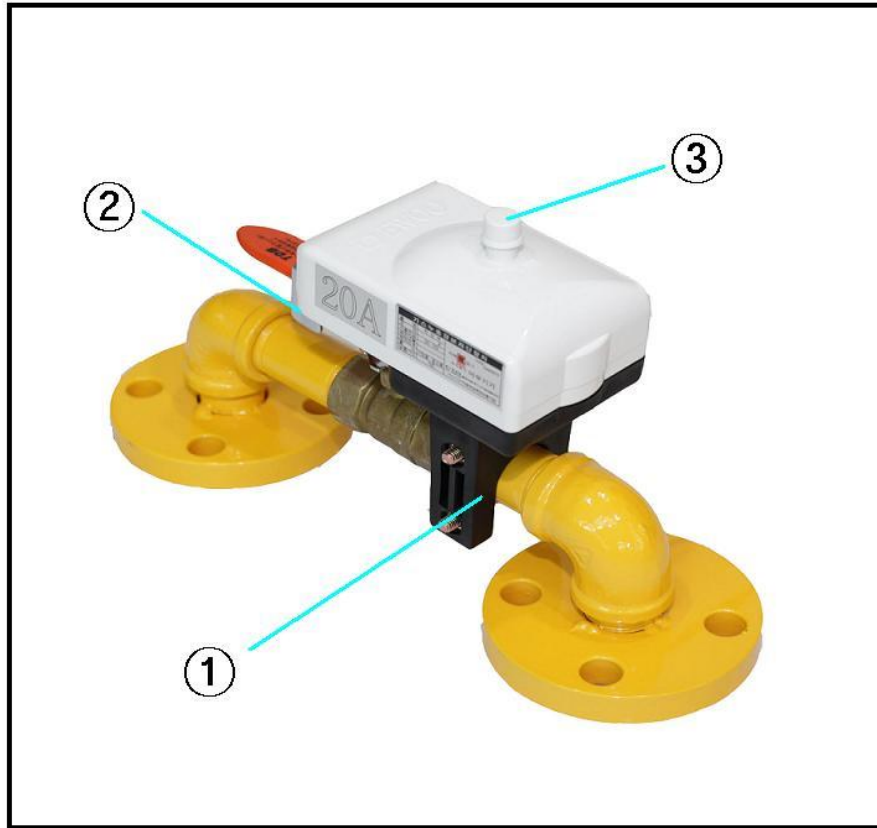
⑨ Over Red LED gets lit if the current greater than 2.5A Is flowing. And if the overload last more Than 3sec. Current output to the shutoff device get ceased.

⑩ Ammeter – It measures and displays electric current in the circuit of the shutoff device When it's operating

⑪ Signal light – Red LED gets lit when the alarm signal has been input (DC 5V-18V). And Then, visual and audible alarms being raised, the shutoff device operates.

⑫ Reset button - When alarm is raised, the Reset button on the Gas Detector can make only the gas detector reset. So after the Gas Detector is reset, you should press the Reset button on the Control panel separately. If you do, you can open the valve by pressing the Open & Close button again.

2-2. SHUTOFF DEVICE



1. Holding clamp

This plastic device holds pipe firmly. Please adjust the shutoff device to be horizontal with valve by this clamp

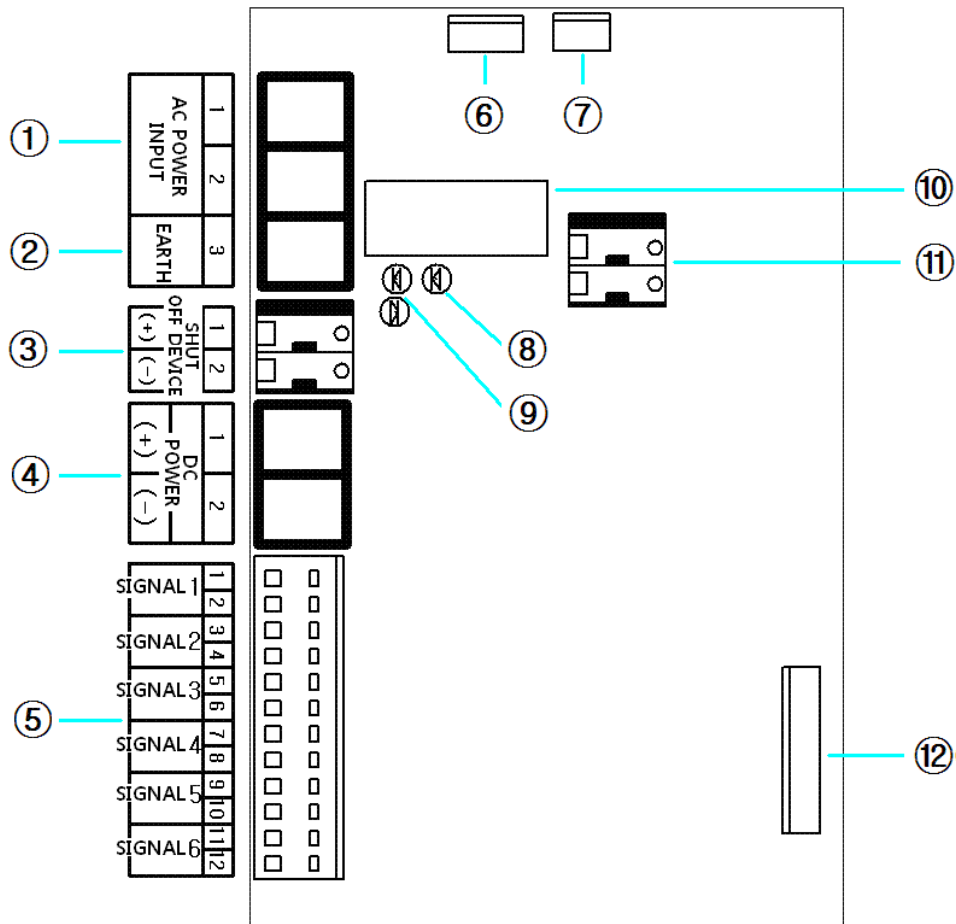
2. Actuating clamp

It's one end is connected with the central axis of the shutoff device and the other end is holding valve handle so that the clamp is able to control it

3. Manual button

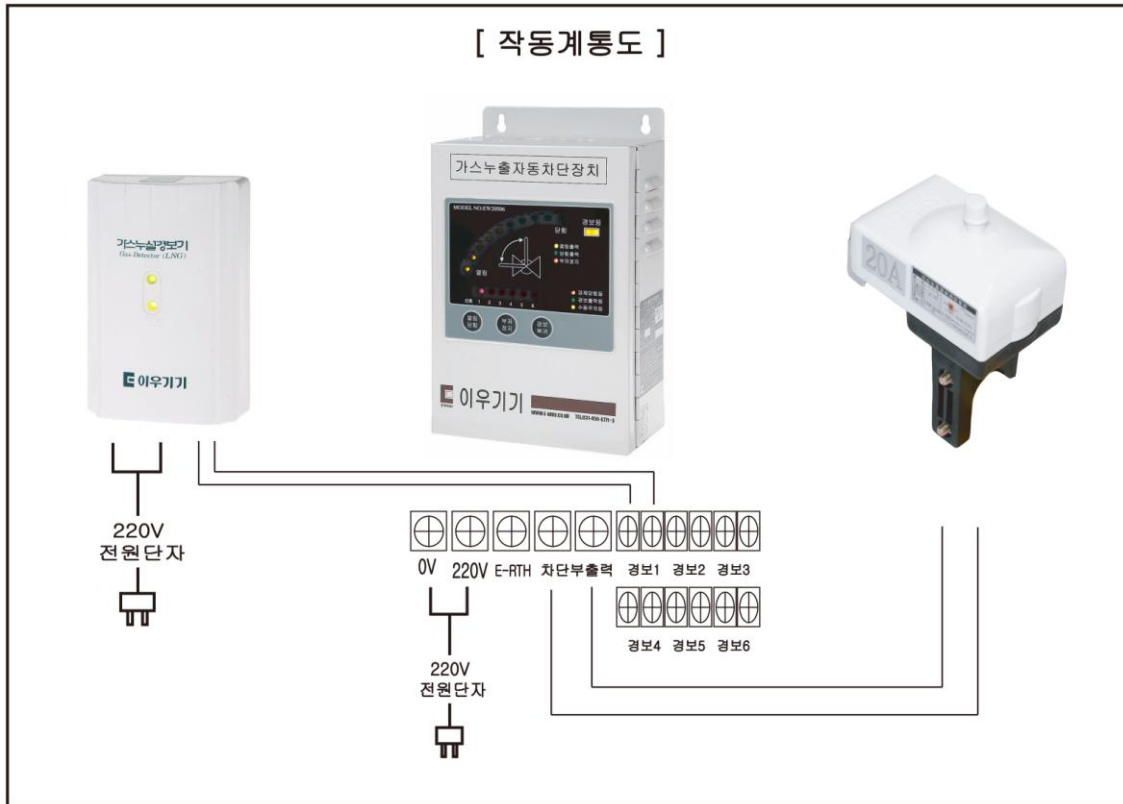
You can open the valve handle manually while this button is pressed

3. CONTROL PANEL DIAGRAM



- ① AC220V POWER
- ② EARTH
- ③ Shutoff device DC 12V
- ④ DC power (DC DETECTOR POER)
- ⑤ ALARM SIGNAL INPUT
- ⑥ 트랜스 연결 AC 220V
- ⑦ 트랜스 연결 AC 16V
- ⑧ DC FUSE 감시 : DC FUSE가 단선되었을 때 점등된다.
- ⑨ 출력상태 LED : 노란색:열림 파란색:닫힘
- ⑩ DC FUSE
- ⑪ DC출력 / 릴레이 접점 출력
- ⑫ LED PCB 연결 코넥터

4. OPERATIONAL SYSTEM



- (1) The Gas Detector : When gas leak is detected. It makes visual and audible Alarm and outputs the alarm signal to control panel to shutoff valve
- (2) Control panel : When the alarm signal is input form the Detector, It makes audible Alarm and operates the shutoff device to shutoff the valve. After taking measures. If the reset button on it is pressed, alarm condition gets reset (Alarm becomes mute And the shutoff device gets opened again)
- (3) Shutoff device : When the alarm signal is input form the control panel, it is actuated

To shutoff valve

5. INSTALLATION

- Before installation

1. Please check the voltage of power supply of the control panel before using (the rated voltage: AC 220V)
2. Please check the connection between the Detector and the Control panel and Between the control panel and the shutoff device
3. Please confirm whether the valve meets the standard diameter of the product

You purchased

4. Open & Close button allows you to make the audible alarm mute (But while the Alarm signal is being input continuously, the shutoff device can't be opened
You can only make the audible alarm mute during this time)

Installation

(Do not open the cover of control panel-You can receive electric shock)

1. Please pull the lower bolt. Then insert shutoff device into valve
2. Please correspond the location of the spindle of valve handle with that of shutoff device exactly.
3. Tighten up the two bolts for shutoff device not to move. And check fixing again
4. Please match the wires of the control panel with terminals of the shutoff Device in color (RED: + / BLACK: -) (If you connect the wires reversely, the shutoff device operates reversely as well)

6. CAUTIONS

If you ignore these cautions, you might be seriously injured or led to death

1. Please use the shutoff device after earthing
(There are sign and terminal for earth on the control panel and shutoff device)
2. Do not touch the shutoff device and valve while the shutoff device is operating
3. Please check the voltage of power supply before using
4. If you are to unplug the power cord. Grasp the plug firmly and then unplug the Cord
5. be cautious not to damage the power cord
6. be cautious about using the silicon glue which could affect the sensor. Silicon Glue could cause malfunctioning
7. Please use the rated voltage (AC 220V) written on the product
8. Do not attempt to disassemble, repair, remodel or convert
9. Do not touch the power cord or main body with wet hand
10. Do not disturb the ventilation of the sensor
12. Please use standard gas when testing
13. Please connect indicator with same sensor in serial number

14. Do not use for the gas that is not target one

15. Please check the sensing device more than once a year

16. Areas to avoid

- ① Near drafts caused by heating, ventilating, fans and doors
- ② Near vapor, steam, exhaust gas, dust, strong wind and other gases

7. DIMENSIONS

