EWOO
ENGINEERING CO., LTD

[Electric Valve Actuators]

REFERANCE MANUAL

MODEL: EW-201 (15A.20A.25A)

MODEL: EW-203 (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.

[CONTENTS]

1. SPECIFICATIONS

(EW201S15. EW201S20. EW201S25/ EW203S15. EW203S20.EW203S25)

1-1. CONTROL PANEL

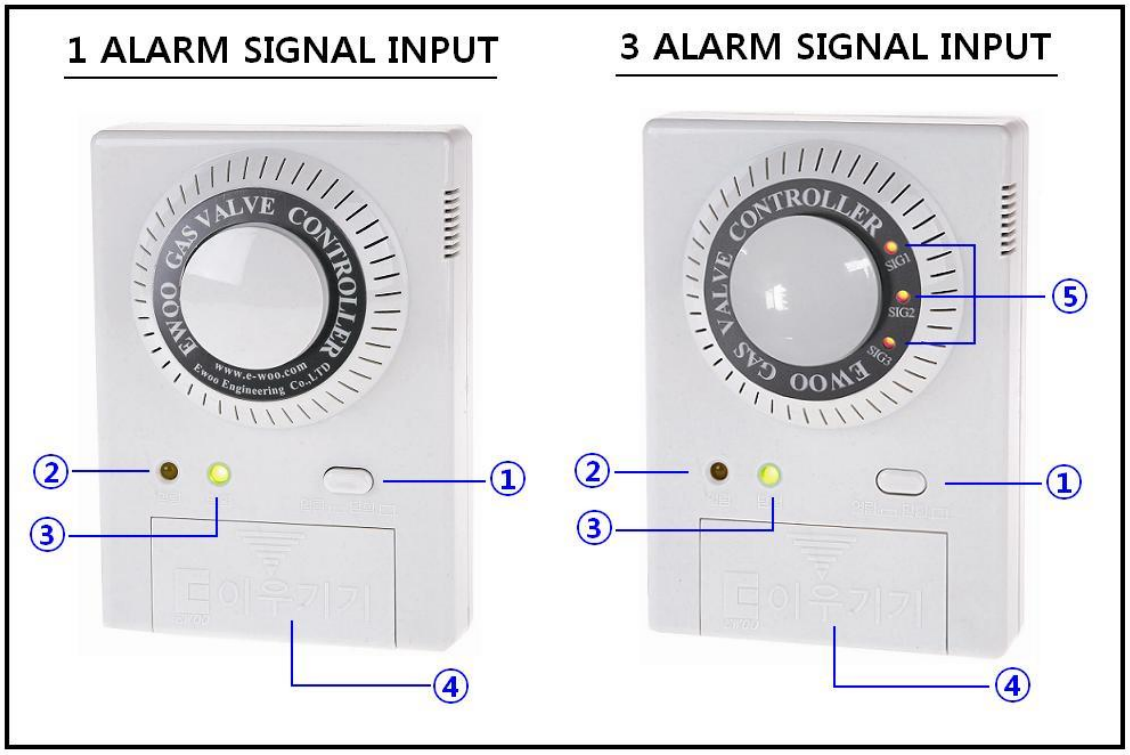
Model / Diameter of gas pipe	1 Alarm signal input			3 Alarm signal input		
	EW201S15	EW201S20	EW201S25	EW203S15	EW203S20	EW203S25
	15A	20A	25A	15A	20A	25A
Power supply	AC 220V .230V. 50Hz. 60Hz					
Operating temperature	0~40℃					
Operating humidity	95% Rh					
Current output (Actuating)	DC 12V					
Audible alarm	Buzzer sound (about 70dB)					
Alarm input	DC 5~18V					
Dimensions	140x148x54㎜					
Weight	430			446g		

1-2. SHUTOFF DEVICE

Diameter of gas pipe	15A	20A	25A
Operating power	DC 12V		
Valve type	Ball valve use		
Deceleration ratio	2,330:1		
Shutoff time	10sec		
Open & Close	90°		
Gear material	Kocetal		
Housing material	Gear box: ABS / Clamp: Nylon glass		
Operating temperature / Operating humidity	-10℃~40℃ / 95% Rh		
Wiring	2Wire RED (+) BLACK (-) 1channel		
Mounting	Clamping at pipe		
Dimensions & Weight	70x115x138mm 332g	70x115x140mm 326g	70x115x155mm 360g

2. PART & FUNCTIONS

2-1. CONTROL PANEL



① Open & Close button : If the button is pressed one time. The shutoff device get Opened. And if it is pressed again, the shutoff device gets closed.

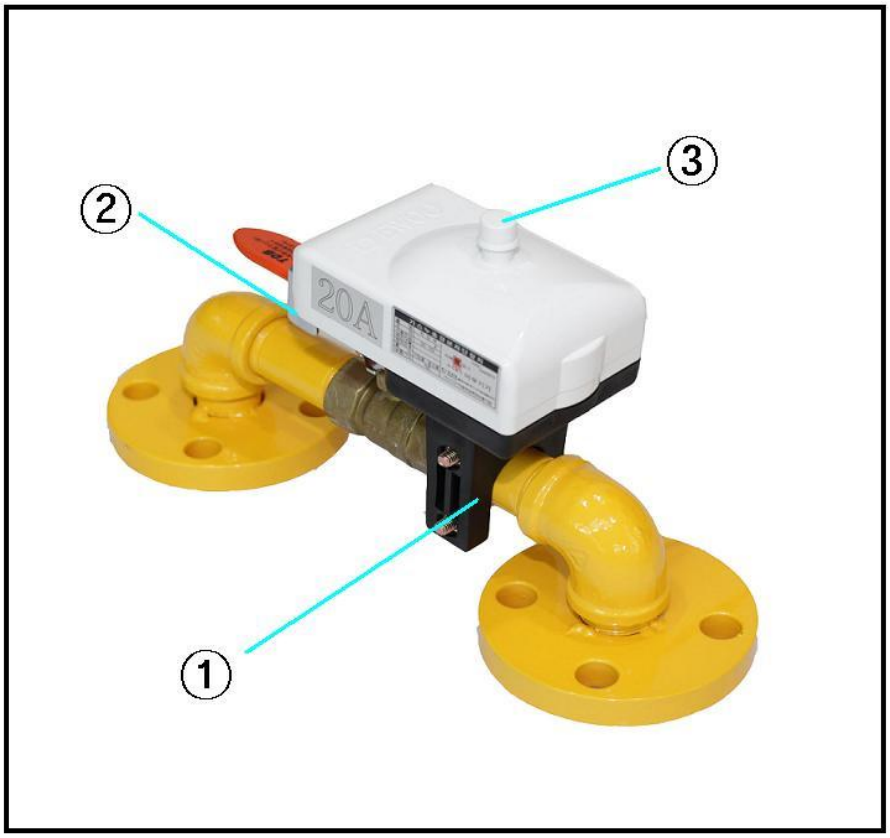
② OPEN light : It is lit while the shutoff device (valve) is opened (normal condition)

③ CLOSE light : It is lit while the shutoff device is closed

④ Terminals : Push and slide down the cover. Then, there are terminals for power Supply wire, output wire. Input wire

⑤ Signal light : RED LED gets lit and audible alarm is raised when the signal is Input form the gas getector

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

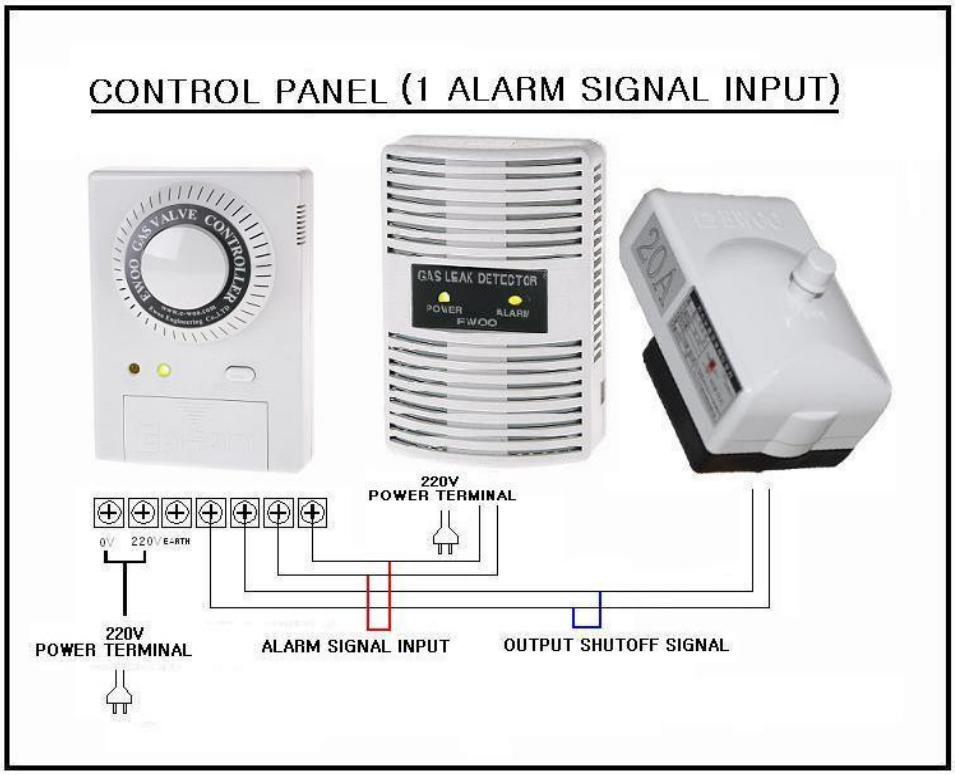
2. Actuating clamp

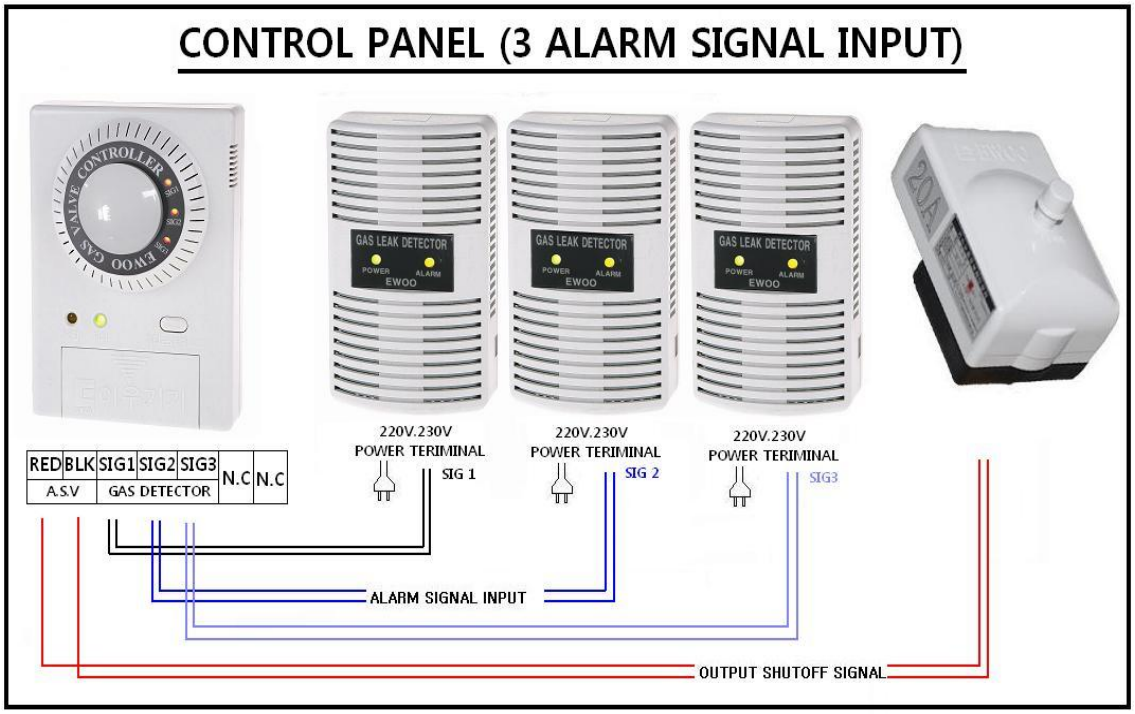
   It's one end is connected with the central axis of the shutoff device and the other end is holding valve handle so that the clamp is able to control it

3. Manual button

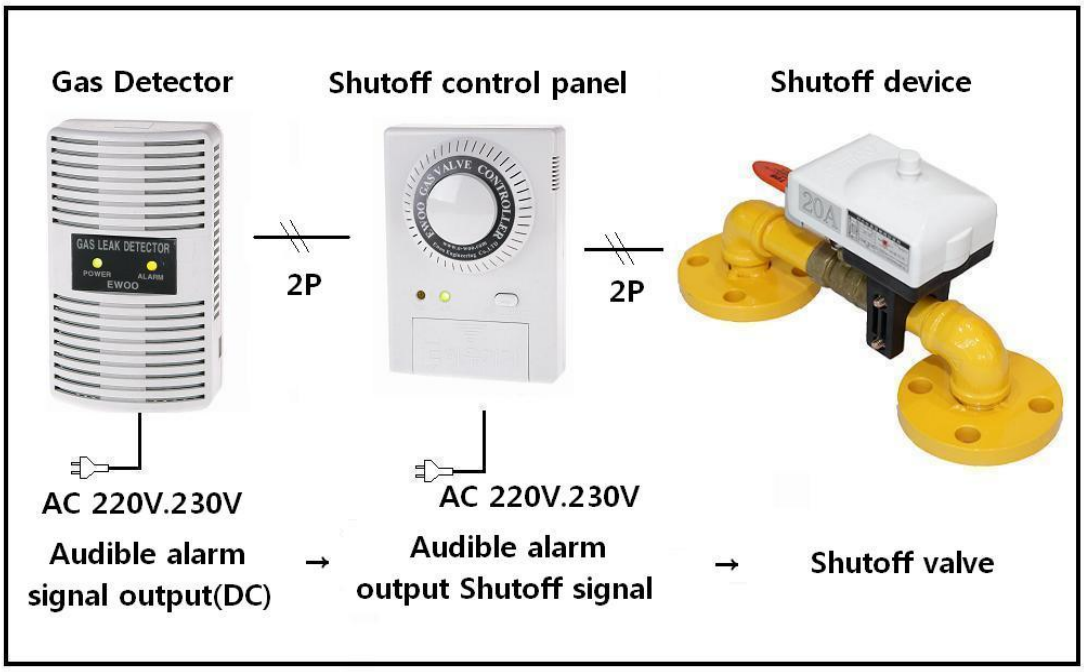
   You can open the valve handle manually while this button is pressed

3. WIRING DIAGRAM





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. INSTALLATION

1. When the control panel raises visual and audible alarms, and signal light and CLOSE light gets lit → Check the closure of valve for yourself
2. When signal light on the control panel gets lit, confirm whether gas is being leaked actually or not IF gas is not being emitted actually, after resetting the gas detector, reset the control panel. And then open the valve to use it by pressing the Open & Close button
   (Refer to gas company to confirm the leakage exactly)
3. When alarm of the detector is not reset so the control panel does not operate though gas has not been leaked → Contact us
4. If there are trouble at the circuit of the control panel or visual and audible alarm is raised → Check the leakage thoroughly and refer to us or shop where you purchased or installation company
5. The control panel should be at the place where it is able to be watched and (Area to avoid:
   - ① A humid, filthy or dusty place
   - ② Near drafts caused by heating, ventilating, fans and doors
   - ③ Near vapor, steam, exhaust gas, dust, strong wind and other gases 4 . Areas of high heat and humidity)

7. CAUTIONS

If you ignore these cautions, you might be seriously injured or leaded 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
    ③

8. DIMENSIONS