

[PRESSURE SWITCH]

MODEL: EW-601



[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
 - 1-1. Indicator
 - 1-2. Gauge (dial)
2. Part & Function
 - 2-1. Indicator (basic)
 - 2-2. Indicator (UNIT type)
 - 2-3. Gauge (dial)
3. Wiring diagram
 - 3-1. Indicator (basic)
 - 3-2. Indicator (UNIT type)
4. Instruction
5. Cautions
6. Dimensions

** 사용설명서의 무단 변경 시 책임 지지 않습니다**

1. Specifications

1-1. Indicator

Model	Indicator of EW – 601 pressure switch
Power supply	AC 220V 60Hz
Power consumption	2W (normal condition),3W(alarm condition)
Operating temperature	0°C ~ 40°C
Visual alarm	Low alarm-Yellow, High alarm-Red, Warning light-Yellow
Audible alarm	Buzzer sound (greater than 70dB)
Alarm Output	DC 12V (Low alarm, High alarm)
Applicable gas	LPG, LNG, Air (and the Gas which have no corrosiveness)
Dimensions	149*259*87mm (5.86"L x 10.19"W x 3.42"H)
Weight	1,480g

1-2. Gauge (dial)

Model	Gauge of EW – 601 pressure switch
Operating temperature	-20°C~ 40°C
Operating humidity	0~95% Rh
Accuracy	±5%
Explosion-proof	Ex d II BT6
Dimensions	Φ168x88mm
Weight	2,244g
Relay contact	DC 12V 100mA

2. PART & FUCITON

2-1. Indicator (Basic)



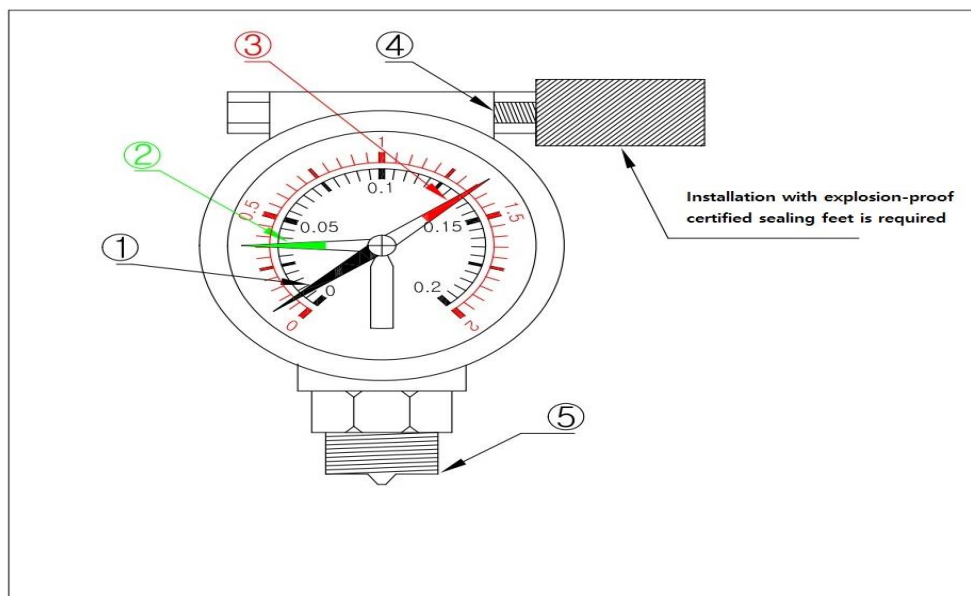
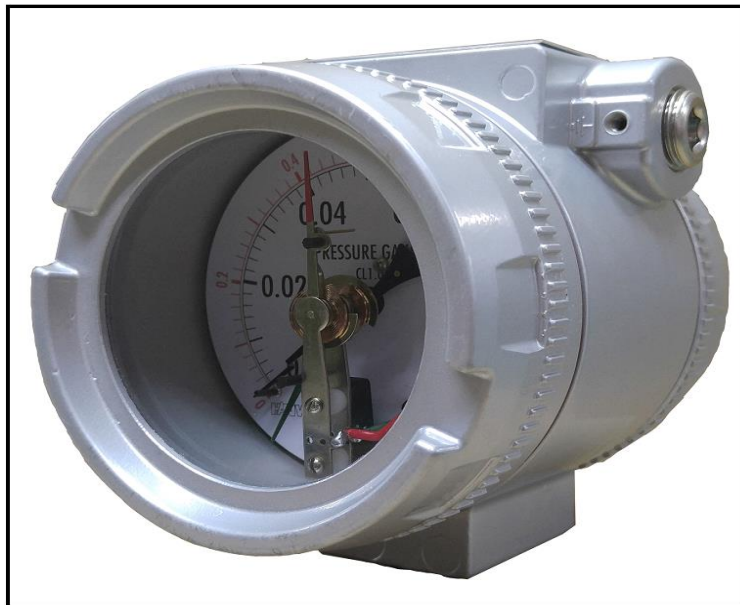
- ① **High alarm**: It is lit when the pressure of gas exceeds the high switch point.
- ② **Normal light**: It is lit while the pressure of gas is normal
- ③ **Low alarm**: It is lit when the pressure of gas drops below the low switch point
- ④ **Main power light** : Green LED is lit while supplied by AC 220V
- ⑤ **Alarm mute warning light** – Yellow LED blinks if the alarm mute 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.
- ⑥ **Test button**: If it is pressed, Normal light gets eliminated and High & Low alarm get lit and the visual and audible alarms is raised
- ⑦ **Warning light**: It is lit when it's High or Low alarm condition
- ⑧ **Signal light** – It is lit when the pressure of gas exceeds the high alarm point or drops below the low alarm point. Eliminated in normal condition
- ⑨ **Reset button** – It allows the user to reset the alarm condition
- ⑩ **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.

2-2. Indicator (UNIT type)



- ① **Voltmeter** : It displays the electromotive force in volts of power supply
- ② **High alarm** : It is lit when the pressure of gas exceeds the high switch point
- ③ **Normal light** : It is lit while the pressure of gas is normal.
- ④ **Low alarm** : It is lit when the pressure of gas drops below the low switch point
- ⑤ **Test button**: If it is pressed, Normal light gets eliminated and High & Low alarm get lit and the visual and audible alarms is raised.
- ⑥ **Warning light**: It is lit when it's High or Low alarm condition
- ⑦ **Main power light**: Green LED is lit while supplied by AC 220V.
- ⑧ **Signal light** : It is lit when the pressure of gas exceeds the high alarm point or drops below the low alarm point. Eliminated in normal condition
- ⑨ **Reset button** – It allows the user to reset the alarm condition.

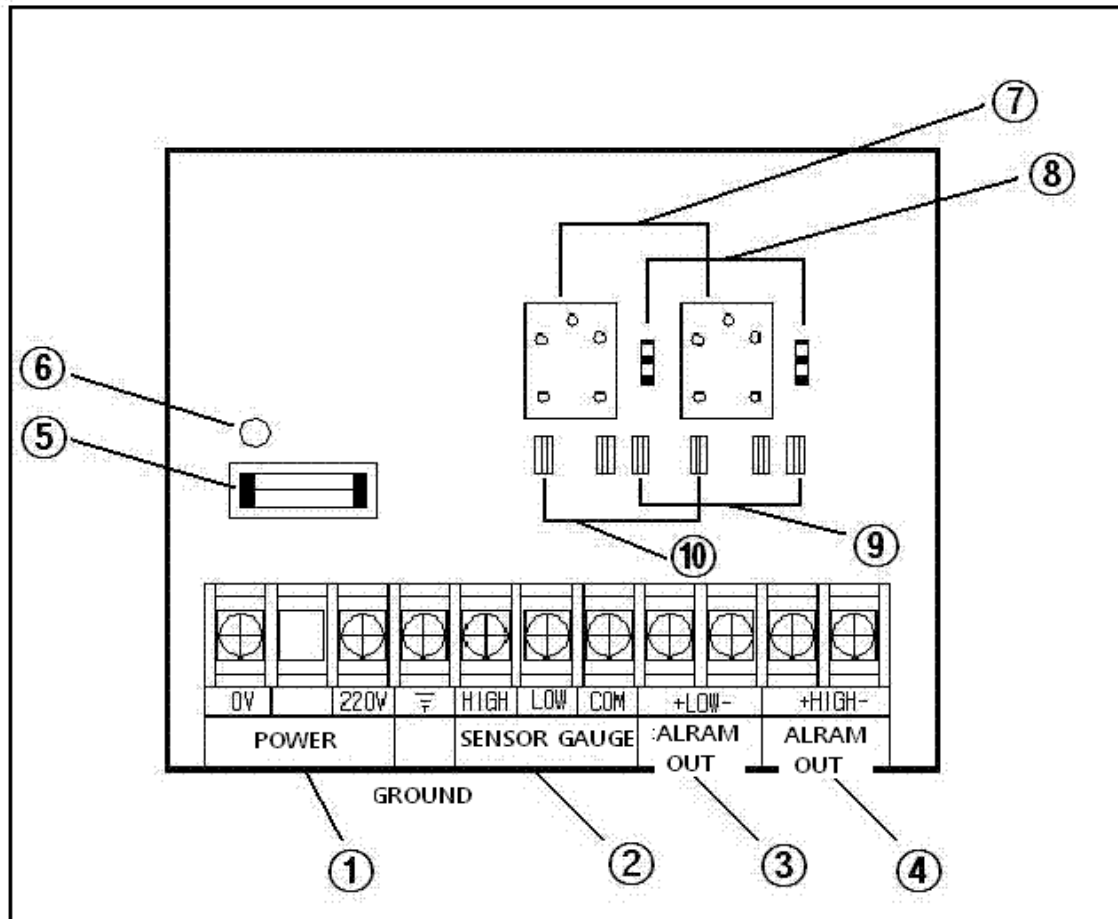
2-3. Gauge (dial)



- ① Low switch point: -20% of using pressure
- ② Current pressure
- ③ High switch point: +20% of using pressure
- ④ Conduit entry: It is entry for cable. High (Red), Low (Green), Common (Black)
- ⑤ Pipe entry: It is entry for gas pipe

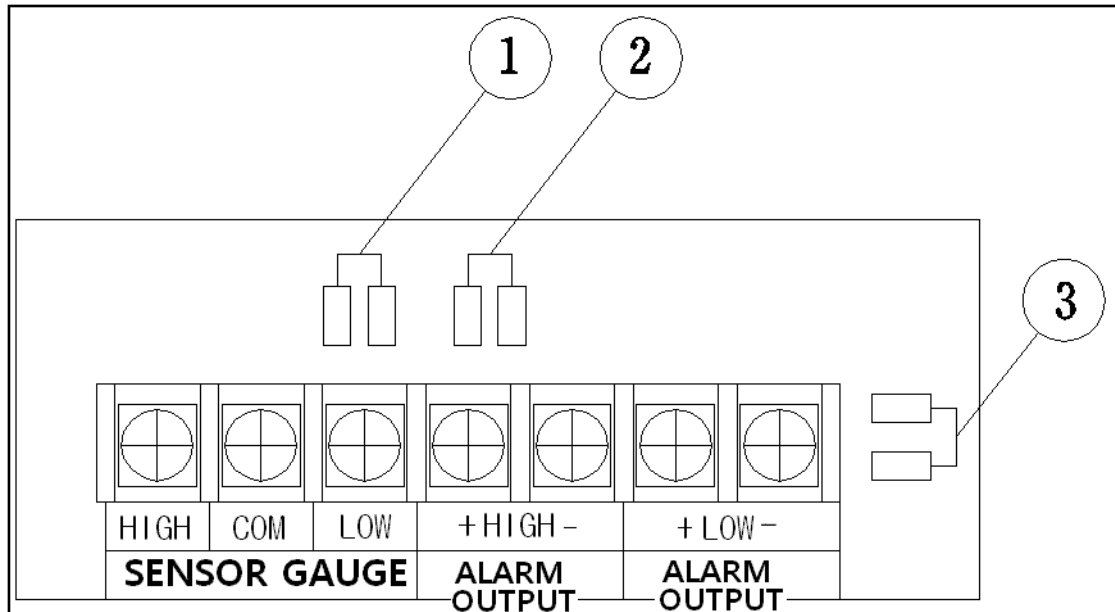
3. Wiring diagram

3-1. Indicator (basic)



- ① Power supply terminal: Please Connect with rated voltage (AC 220V)
- ② Pressure switch (gauge): red(HIGH) green(LOW) black(COM)
- ③ LOW: It is terminal for the output of Low alarm signal (DC 12V)
- ④ HIGH: It is terminal for the output of High alarm signal (DC 12V)
- ⑤ AC FUSE: AC FUSE 220V. 1A
- ⑥ Warning light of AC FUSE: It is lit when the fuse has blown.
- ⑦ Relay: Please install it if you want to use Relay type output
(The Indicator is released with it being DC 12V type)
- ⑧ Electric resistance (1K): Please remove it if you want to use relay type output
- ⑨ Jumper pin: When you are to use DC 12V output, please insert jumper into this pin.
(Remove ⑩)
- ⑩ Jumper pin: When you are to use Relay type output, please insert jumper into this pin.
(Remove ⑨)

3-2. Indicator (UNIT)



- ① ③ Jumper pin: When you are to use DC 12V output, please insert jumper into this pin. (Remove②)
- ② Jumper pin: When you are to use Relay type output, please insert jumper into this pin. (Remove①, ③)

4. Instruction

- ① Please use rated voltage 220V written on the product.
- ② Please connect the sensor. (red, green, black)
- ③ Supplying power, Please check the normal light and the power light.
(If High alarm or Low alarm light is lit, please check the setting of gauge)

④ TEST

- A: Please press the Test button. Then, the High & Low alarm light gets lit and audible alarm (short-sound) is raised.
- B: If you press the Alarm mute button, Alarm mute warning light being lit, the audible alarm becomes mute.
- C: If you press the alarm mute button again, the alarm mute warning light is eliminated and the alarm becomes audible again.

D: The signal light is lit when The High or Low alarm signal is input.

E: Once the indicator raises the alarm, though the signal light has been eliminated, the alarm condition is not reset. So you should press the reset button. But while the signal light is lit, the indicator can't be reset.

5. Cautions

- ① When you install the gauge, Please close the valve so that the pressure is not input to the gauge.
- ② When you input the gas to the gauge initially, please open the valve slowly. (Rapidly opening gauge initially could cause failure of the pressure gauge.)
- ③ When installing wires, please install the sealing fitting (explosion proof approved).
- ④ Please use standard tools when you install the gauge. Installing by hand could cause failure of the pressure gauge.
- ⑤ Please apply electric current after installing the pressure switch and connecting the indicator with the gauge.

	Troubles	Taking action
Indicator	The light is not come up	Check the power supply(110V/220V) Check fuses (If fuses has blown, the warning light is lit in the indicator)
	Alarm is not raised in spite of switch contact	Check the connection between indicator & gauge. When testing pressure switch, if alarm is not raised, please refer to us.

6. Dimensions

