

BS-658 Waterproof CO Detector with double connection



TECHNICAL CHARACTERISTICS

OPERATION VOLTAGE	24V + 25%
MAXIMUM POWER CONSUMPTION	2W / Chanel
DETECTING GAS	CO
DETECTING RANGE	0-1000ppm
RESOLUTION	1ppm
LOW ALARM LEVEL	35ppm
HIGH ALARM LEVEL	200ppm
SIGNAL OUTPUT	low alarm relay / high alarm relay output
CABLE	1.5mm ² x 4 cables
DEGREES OF COVER PROTECTION	IP 66
RESPONSE TIME	<60sec
OPERATION TEMPERATURE RANGE	-20 to 50 °C
RELATIVE HUMIDITY	Up to 95%
EXTERNAL DIMENSIONS LxBxH	165x118x62
TYPICAL WEIGHT	330gr

Thank you for purchasing this product of Olympia Electronics. A European manufacturer.

1. Brief introduction

With a high-quality electrochemical gas sensor and excellent craft work, it has the advantages of good repeatability, Resistant against temperature and humidity, long life-span and easy operation.

It can convert the gas concentration in the air to a digital signal output with a range of 4-20mA. It is suitable for gas detection in car parkings or industrial environment where toxic gas leaks.

2. Instruction on installation and wire connection

4.1 Installation position

4.1.1 Please install the gas detector within 1 meter near to the gas valve, pipeline connector, gas output mouth or easily leakage point. Please keep it far away from high temperature and humidity.

4.1.2 Installation height: 1.5m above the ground.

4.1.3 If installed in large areas, installation of 1pc every 10-12 square meters can also have good detection results.

4.1.4 When installing it, please ensure the gas sensor head is pointed downward, the locknut screwed completely and well covered.

4.2 Installation method

Please choose the places without corrosive gas, lampblack, dust and avoid water logging etc in the detection field. Please refer to the suitable installation method as follows:

Method (Wall-mounted): If the user needs to install the detector on the wall, please choose an appropriate surface according to the

transmitter structure dimensions and then install the transmitter using 3pcs of M6*20 bulge bolts.

4.3 Wire connection

The wire between gas controller and the detector should be more than 1.5 mm² (>1000m).

After the detector is installed correctly according to the above methods (4.1), open the up-cover of the detector and screw off the locknut. Pull the cables into the detector through the lock connector. Then connect the wire to the terminals of the detector according to the marks on the circuit. The connection is as shown in the following sketch map. Please pay attention to the correspondence of the wires. After connecting wires correctly, pull out the extra cables and screw on the locknut, tighten the rubber air-proof circle and clasp the cables. After all connections are correct, fix the up-cover with M4*8 bolts.

According to the spot condition, you can also first connect the wires and then install the detector.

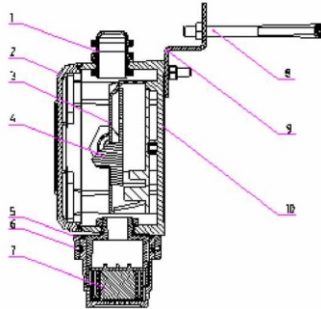
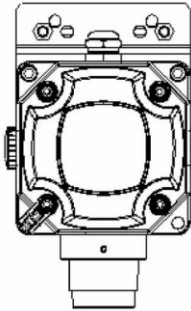
Notices

1. Do not use the detector in the explosive environment.
2. Avoid dropping it from higher place or shaking it acutely.
3. Please avoid colliding the electric circuit and the detector during installation.
4. The user is not allowed to replace any part of the detector freely.
5. Please avoid installing it on the heat source nor shaking source.
6. Avoid fast flowing gas passed the sensor directly, otherwise it would effect the testing result.
7. Do not use the transmitter in high gas concentration much higher than its detection

range, or would shorten the sensor life.

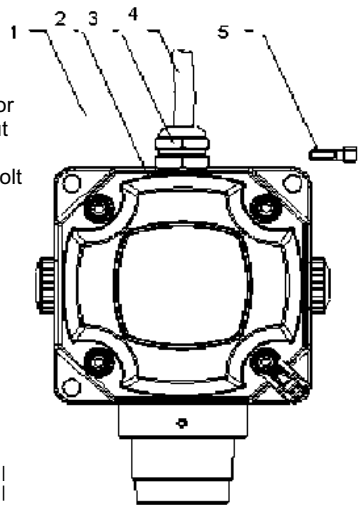
8. If the detection gas such as mixed combustible gas, liquid steam etc. which is different with calibration gas, there it would be certain error between testing results and actually gas concentration.

9. In order to keep the detector accuracy, it's better to check every half a year, and calibrate every year.



- 1 Locknut
- 2 Up-cover
- 3 Terminals
- 4 Electric circuit
- 5 Sensor socket
- 6 Lockbolt
- 7 Gas sensor
- 8 Bulgy bolt
- 9 Fixing frame
- 10 Down-cover
- 11 Revolving nut

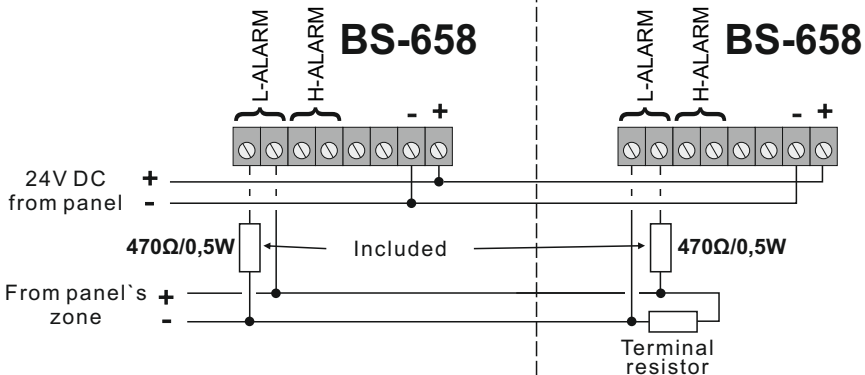
Sketch map 1: Configuration



- 1. Wall
- 2. Detector
- 3. Locknut
- 4. Wire
- 5. Bulgy bolt

Sketch Map 2 Terminal Instruction:

- L-ALARM: Low alarm relay output (35ppm)
- H-ALARM: High alarm relay output (200ppm)
- +: Power supply from panel 24V DC
- : Power supply from panel 24V DC



Connecting the L-ALARM outputs of two detectors to a panel