

TEST OF GAS FIRE EXTINGUISHING SYSTEM

The gas fire extinguishing system project requires the implementation of simulated start-up tests to verify the reliability of the gas fire extinguishing system. The simulated start test shall be carried out after the installation and debugging of gas equipment, alarm equipment and gas fire extinguishing equipment.

1. Manually start the experiment

2, automatic start test.

Preparation before test

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After the installation and debugging of the gas alarm system and fire extinguishing system, the test tools (stopwatch, sound level meter, multimeter, point-type smoke detector tester, point-type temperature detector tester, etc.) have been available.

Professional personnel should check whether all lines are properly connected. Under the guidance of professional personnel, the solenoid valve should be removed to start the gas fire extinguishing system for simulation test.

Four, test method

3.1 Manual simulation startup test can be carried out as follows:

Press the manual start button, and observe whether the relevant action signals and linkage equipment are normal (such as sound and light alarm, start the load response at the output end, close the ventilation and air conditioning, fire valve, etc.).

Manually activate the pressure signal feedback device and observe whether the gas injection indicator light outside the relevant protection zone is normal.

3.2 Automatic simulation startup test can be carried out as follows:

Connect the starting output end of the fire extinguishing controller with the drive device of the corresponding protection zone of the fire extinguishing system. The drive device shall be detached from the valve action mechanism. Alternatively, a load with the same starting voltage and current as the driving device can be used instead.

2. Manually simulate fire alarm to make any fire detector in the protection zone operate, and observe whether the relevant alarm equipment operates normally after the output of a single fire alarm signal (such as alarm bell, buzzer, etc.).

3. Manually simulate fire alarm to make another fire detector in the protection zone operate. After observing the output of the composite fire alarm signal, the relevant action signal and the

linkage equipment operation are normal (such as sending out sound and light alarm, starting the load at the output end, closing ventilation and air conditioning, fire valve, etc.).

Five, test results judgment

The simulated start-up test results shall meet the following requirements:

1. The delay time is consistent with the set time, and the response time meets the requirements;
2. Sound and light alarm signals are correct;
3. The linkage device works correctly;
- 4 The driving device is reliable.

Six, test precautions

1. The test shall be carried out in strict accordance with the guidance of professional personnel to avoid damage to equipment or injury to personnel.
2. Before the test, the solenoid valve should be removed from the bottle set, so as not to start the gas extinguishing system by mistake.
- 3, after the test should be restored and check the system.