

HST-YZ5-A Fully Automatic Touch Screen Control Oxygen Index Tester



Picture Just for reference

1. Scope of application

Applicable to plastics, rubber, fiber, foam, film and textile materials such as combustion performance measurement

2. Device features

Full color touch screen control, just set the oxygen concentration value on the touch screen, the program will automatically adjust to the oxygen concentration balance and beep sound prompt, eliminating the trouble of manual adjustment of oxygen concentration;

The use of step proportional valve greatly improves the control accuracy of the flow rate, the use of closed-loop control, the test oxygen concentration drift program automatically adjusted back to the target value, avoiding

the traditional oxygen index meter can not adjust the oxygen concentration in the test, greatly improving the test accuracy.

3. According to the standard:

Design standard: GB/T 2406.2

Compliant standards: ASTM D 2863, ISO 4589-2, NES 714, GB/T 5454, GB/T 10707, GB/T 8924, GB/T 16581, NB/SH/T 0815, TB/T 2919, IEC 61144, ISO 15705, ISO 4589-2.

4. Technical parameters:

4.1 Imported oxygen sensor, digital display oxygen concentration without calculation, higher accuracy and more accurate, range 0-100%

4.2 Digital resolution: $\pm 0.1\%$

4.3 Overall measurement accuracy: Level 0.1

4.4 Touch screen setting program automatically adjusts oxygen concentration

4.5 One-click calibration accuracy

4.6 One-key matching concentration

4.7 The oxygen concentration is stable and the alarm sounds automatically

4.8 With timing function

4.9 Experimental data can be stored, historical data can be queried, and historical data can be cleared

4.10 You can choose whether to burn 50mm

4.11 Air Source Fault Warning, oxygen sensor fault warning, oxygen and nitrogen incorrect connection warning, oxygen sensor aging warning

4.12 Standard oxygen concentration input

4.13 Combustion cylinder diameter can be set (two common specifications are optional)

4.14 Flow adjustment range: 0-20L/min (0-1200L/h)

4.15 Quartz glass cylinder: Choose one of two specifications (internal diameter ≥ 75 mm or internal diameter ≥ 85

mm)

4.16 Gas flow rate in the combustion cylinder: $40\text{mm} \pm 2\text{mm/s}$

4.17 Overall dimensions: 650mm×400×830mm

4.18 Pressure gauge precision 2.5, resolution: 0.01MPa

4.19 Test environment: Ambient temperature: room temperature $\sim 40^{\circ}\text{C}$; Relative humidity: $\leq 70\%$;

4.20 Input pressure: 0.25-0.3MPa

4.21 Working pressure: nitrogen 0.15-0.20Mpa Oxygen 0.15-0.20Mpa

4.22 Sample clips can be used for soft and hard plastics, textiles, fire doors, etc

4.23 Propane (butane) ignition system: the ignition nozzle is made of a metal tube, with a nozzle with an inner diameter of $\Phi 2 \pm 1$ mm at the end, which can be bent freely. Can be inserted into the combustion cylinder to ignite the sample, the flame length: 16 ± 4 mm, the size of 5mm to 60mm can be freely adjusted,

4.24 Gas: industrial nitrogen, oxygen, purity > 99%; (Note: Air source and link head user own).

Tips: When the oxygen index tester is tested, it is necessary to use not less than 98% of the industrial grade oxygen/nitrogen each bottle as the air source, because the above gas is a high-risk transport product, can not be provided as the oxygen index tester accessories, can only be purchased at the user's local gas station. (In order to ensure the purity of the gas, please purchase at the local regular gas station)

4.25 Power requirements: AC220 (+10%) V, 50HZ

4.26 Maximum power: 150W

4.27 Sample clamp of self-supporting material: it can be fixed on the position of the shaft of the combustion cylinder and can vertically clamp the sample

4.27 Sample holder of non-self-supporting material: it can fix two vertical sides of the sample to the frame at the same time (**optional** ,suitable for materials such as textile film)