

Technical Specifications

ZY6155A

Oxygen Index Analyzer, LOI



Scope of Application	Evaluation of flammability for plastics and non-metallic materials via 50W horizontal and vertical burning tests to determine flame retardant ratings
Standards Compliance	ISO 4589-2 / ASTM D2863
Oxygen Concentration (OI)	0 ~ 100% O ₂ digital display, resolution: 0.1%.
Adjustment Method	Automatically adjusted via PLC + touchscreen + mass flow controllers
Nitrogen Mass Flow Controller Range	1.0 to 11.0 L/min; Accuracy: 1%
Oxygen Mass Flow Controller Range	1.0 to 11.0 L/min; Accuracy: 1%
Measurement Accuracy	Class 1.0.
Combustion Tube Material	Quartz Glass
Combustion Tube Inner Diameter	75mm
Combustion Tube Height	450mm
Gas Flow Velocity at Combustion Tube Top	90 mm/s ± 10 mm/s
Gas Flow Velocity Inside Combustion Tube	40 mm/s ± 2 mm/s
Timer Accuracy	±0.1 s/h
Igniter	A dedicated handheld electronic propane igniter
Sample Holder	1 set each for rigid self-supporting and flexible materials
Gas Supply	Oxygen and nitrogen with a purity of over 98%
Power Requirements	AC 220V (±10%) / 50 Hz.
Dimensions	L630 * W350 * H655 (Unit: mm)
Control System	Touch screen + PLC automatic control
Environmental Conditions	-10℃~45℃
Relative Humidity	< 85%
Working Pressure	0.2Mpa