

Microbial Air Sampler ZR-2052



Introduction

ZR-2052 Microbial air sampler is an efficient portable active air sampler designed for cleanroom and aseptic environments. The sampler is a single-stage multi-aperture impactor and air will be drawn through it at a constant flow rate. Airborne microbes are accelerated when the air passes through the aperture and then impact the surface of the special medium in petri dish at a speed of 10.8m/s, in which the particles larger than 1 μ m in diameter are captured. The sampler can be widely used in pharmaceutical, food and drug, disease control, health and epidemic prevention, hospital and other related industries.

Packing list



Host and ABS Carrying box



Power supply adapter



Tripod



Features

- High precision electronic flowmeter with flow compensation, flow rate is stable and accurate.
- Preset locations and sampling plans, supporting free combination.
- Can automatically fix $\Phi 90\sim 100$ mm petri dish in the best position.
- Three-level user management and audit track, ensure data integrity.
- Support ambient air and compressed gas sampling.
- Control sampling by time or volume, parameters can be freely adjusted.
- Adjustable sampling delay, time, interval and cycle, meet more sampling requirements.
- Built-in temperature, humidity, and atmospheric pressure sensor.
- Screen power saving function, extend battery life.
- Large capacity storage to record rich information.
- Exhaust filtration to ensure a clean environment.
- A built-in battery, long life and fast charge.
- Light weight, portable design.

Reference standards

- ISO14698
- BS EN 17141:2020
- GMP

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Specifications

Parameters	Range	Resolution	Maximum permitted error
Sampling flow rate	100 L/min	0.1 L/min	±2.5%
Sampling volume	1-9999 L	1 L	±2.0%
Sampling time	0s-23h59min59s	1 s	±0.2%
Sampling delay	0s-23h59min59s	1 s	±0.2%
Sampling interval	0s-23h59min59s	1 s	±0.2%
Sampling mode	Customized sampling, mode preset sampling (7 modes, 8 sites, and 8 parameters can be preset), and high-pressure gas sampling.		
Sampling cycle	0-999		
Petri dish size	Φ90-Φ100 mm, and the petri dish can be fixed in the center position		
Communication	WIFI, Bluetooth, USB		
Data storage	50,000		
Data output	USB, Bluetooth (optional Bluetooth printer)		
Alarm	Flow blocking alarm, low power alarm		
Language	English, Chinese		
Data integrity	Three level user management and audit trail		
Screen	4.3 inch HD touch screen with automatic power saving mode		
Battery	When charge for 3.5 h, battery life≥8 h		
Power adapter	Input AC100-240 V/50-60 Hz; Output DC24V 2A		
Noise	< 60 dB (A)		
Dimension	(L125×W127×H217) mm		
Weight	About 1.9 kg (with sampling head)		
Power consumption	< 10 W		

ZR-G01 Compressed Gas Sampling Kit



G01 should operate with ZR-2052 host, is used to collect microbial content in compressed gas

- Equip a pressure valve to reduce compressed pipeline pressure.
- Material is anodized aluminum, easy for disinfection.
- Flowmeter is made of high-pressure-resistant material, which has high-pressure resistance and good pressure reduction.

Parameters	Range	Error
Flow range	(0-6000)L/min, adjustable	±4%
Pressure range	(0-10)Mpa	
Operating temperature	(0-65)°C	
Weight	< 1kg	