

DT-2042 type comprehensive sampler for atmospheric VOCs and particulate matter.



Product description

DT-2042 type comprehensive sampler for atmospheric VOCs and particulate matter can realize the comprehensive sampling of ambient air and total suspended particulate matter. It uses the solution absorption method or adsorption tube to collect various harmful gases in the ambient air and indoor air, and uses the filter membrane weighing method to capture the total suspended particulate matter (TSP) and inhalable particulate matter (PM10, PM2.5) in the ambient air. The product has stable performance and is easy to operate. It is suitable for departments such as indoor testing, environmental monitoring, industrial and mining enterprises, and health and epidemic prevention to collect various toxic and harmful gases.

Characteristics

1. Five independently settable electronic constant current sampling channels.

2. Multiple sampling modes such as timing, constant volume, interval, and delay.
3. Real-time collection of air pressure, temperature, and pressure measurement, and automatic conversion of actual/reference/working/standard volume.
4. Imported brushless pump with a service life of more than 5,000 hours.
5. The sampling status is automatically recorded in case of power failure during the sampling process, and sampling can be continued after power is restored.
6. The data storage can hold at least 60,000 sets of sampling information.
7. The air sampling has an automatic heating and cooling function, and the constant temperature is adjustable within the range of (15 - 30) ° C.
8. The sampling flow range can be flexibly customized according to customer needs.
9. Five-inch high-resolution touch color screen for convenient human-computer interaction.
10. The TSP/PM10/PM2.5 sampling heads are made of aluminum alloy material to resist electrostatic adsorption.
11. Standard U disk export and U disk upgrade system are provided, and Bluetooth printing function is optional.
12. Equipped with a height-adjustable tripod.

Technical Parameters

1. Key Parameters

Main Parameters	Parameter Range	Resolution	Accuracy
atmospheric flow of A and B channels	(10 ~ 200) mL/min	0.1 L/min	better than ±2.0%
atmospheric flow of C and D channels	(0.1 ~ 1.0) L/min	0.01 L/min	better than ±2.0%
particulate matter sampling flow	(60 ~ 130) L/min	0.1 L/min	better than ±2.0%
flow stability	/		better than ±2.0%
flow repeatability	/		better than ±2.0%
sampling time	(1 ~ 1000) min	1 min	better than ±0.1%
delay time	0 ~ 23h59min	1 min	better than ±0.1%
interval time	(1 ~ 1000) min	1 min	better than ±0.1%
flow pressure	(0 ~ 4) Pa	1 Pa	better than ±2.5%
pressure before the meter	(-35 ~ 35) kPa	0.1 kPa	better than ±2.5%
Data Storage Capacity	(60 ~ 120) kPa	0.1 kPa	better than ±0.5kPa
temperature control	(10 ~ 30) °C		

range.	
working temperature.	(-30~50) °C
Working Power Supply	AC (220±22) V 50Hz
Continuous Working Time	> 6h
Noise	< 55dB(A)
Power Consumption	< 200W
Overall Weight	About 7 Kg
Length * Width * Height (mm)	285*220*240

2. Configuration List

Serial Number	Name	Specification	Unit	Quantity	Remarks
1	Instrument Host	DT-2042	Unit	1	Built-in lithium battery
2	Power Cord	/	Root	1	
3	TSP cutter		Unit	1	including filter membrane clamp.
4	PM10 cutter	/	Unit	1	optional
5	PM2.5 cutter	/	Unit	1	optional
6	filter membrane		Box	1	φ90mm
7	filter membrane box		Unit	1	
8	drying cylinder		Unit	1	including elbow
9	tripod	/	Unit	1	including tray
10	aluminum case for the main unit	/	Unit	1	
11	Instruction Manual	/	Copy	1	
12	Certificate of Conformity	/	Copy	1	
13	Warranty Card	/	Copy	1	
14	Packing List	/	Copy	1	

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