

M1500 Air Sampling Pump

Introduction

M1500 Air Sampling Pump is a high stable individual air sampling system based on ARM core. It uses international advanced power system and relies on MEMS sensor technology to complete the layout of haptic system. With high degree of intelligence, it could realize high accurate and high stable sampling for air, dust and toxic or harmful gases according to the set flow.

The sampling pump is suitable for environmental workers from the enterprises like environmental monitoring station, epidemic prevention, engineering quality indoor test, R&D institution, mining industry, etc. and it is used to collect the gases or aerosol samples like organic, inorganic and metallic toxicant in the air.



Features

- Flow range: 20mL/min~1500mL/min
- Over 4kPa back pressure compensation at 1500mL/min flow point
- Real-time temperature and pressure compensation
- Sampling mode: manual,time-fixed and volume-fixed
- Real-time resistance, electricity detection and system protection
- Real-time detection for environmental temperature and atmosphere
- Time and data recording function
- Can charge or communicate with many sets of sampling pump by conjoined charging base simultaneously
- Float flow display
- Digital OLED display with 180°visual range
- Wear by buckle or install by tripod
- Protection: IP54
- Explosion proof: Ex ia IIC T4 Ga

Specification

Item	Performance Parameter
Flow range	20~1500mL/min
Accuracy	±5% of set flow value or 5mL/min(Max. Value is valid)
Load capability	4.5kPa(@1500mL/min)
Runtime	≥8h(1000mL/min,4.5kPa,fully charged)
Display	OLED
Display content	Real-time flow,Sampling volume,Sampling mode,Resistance monitoring,Runtime,Time of endurance,Temp./pressure,Date/time
Flow display mode	Digital and float type
Data record	1000 events
Power supply	7.2V NiMH battery with protection of overcharge and over-discharge.
Protection	IP54,ABS wholly sealed housing
Explosion proof	Exia II C T6 Intrinsic safe explosion proof
Button life	≥1 million times
Sampling method	Fix-point sampling,Portable sampling
Tolerance performance	Vibration test:4Hz,30m/s,2h(MT210)
	Impact test:500m/s,(11±1)ms(GB/T2423.5--1995)
	Drop test:1m(GB/T2423.8--1995)
Working environment	Temperature:-10~45°C
	Humidity:0~95%RH (25°C)
	Air Pressure 80(Optional 60)~110kPa
Storage environment	Temperature:-40°C ~60°C
	Humidity:≤98%RH Non-condensing
Dimension	125X70X48(mm)
Weight	490g

General Accessories Order Guide

C		series accessory	
		Code	Definition
		F00	General accessories
		04	Test tube cloud
		05	Test tube support
		06	Test tube support suit
		07	Box adapter for metal dust sampling
		08	Activated-carbon sleeve
		A	80mm
		B	120mm
C	F00	06	

Special Accessories Order Guide

C		series accessory	
		Code	Definition
		F15	c1500 accessory
		01	Base(charging and communication function)
			Code Definition
			A Single base
			B Three-linked base
			C Five-linked base
		02	Suite case/Packaging box
			A Single-base packaging box
			B Three-linked base suite case
			C Five-linked base suite case
		03	Battery module
		06	Power adapter
			A 12V/1A rated current
			B 20V/3.25A rated current
		07	Filter kits
		09	Communication line
		10	Tripod support(can be prepared by users)
		11	1/4 inch hose 800mm
C	F15	01	A