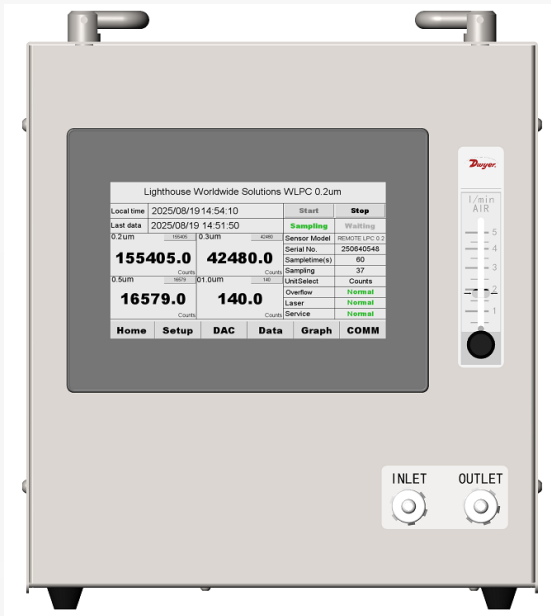


Winifred RLPC

remote liquid particle counter



DATASHEET



描述 Description

液体粒子计数器一体机是一款集成了高精度测量技术和高效在线监控数据处理功能的仪器，内置 Lighthouse 液体粒子计数器，其先进的激光散射技术能够精确测量液体中的微小颗粒，在复杂的环境中保持稳定的性能，为用户提供准确可靠的监测数据，并且可同时测量4个通道的粒子，满足用户对不同粒径范围的监测需求。

该一体机配备直观易用的触摸屏界面，用户可轻松完成参数设置、数据查看和保存等操作，也可根据需求进行个性化调整，包括采样计划、采样数值显示格式及输出格式等，还可以实时查看设备运行状态，并通过直观的数据展示生成粒径分布曲线，以便进行实时数据分析。

同时，该一体机提供多种通信、硬件接口。通过 USB 接口，用户可以将数据快速传输至存储设备，进行进一步的数据处理分析，而通过以太网接口，用户还可以实现对该一体机的远程实时监控和数据管理。

特点 Features

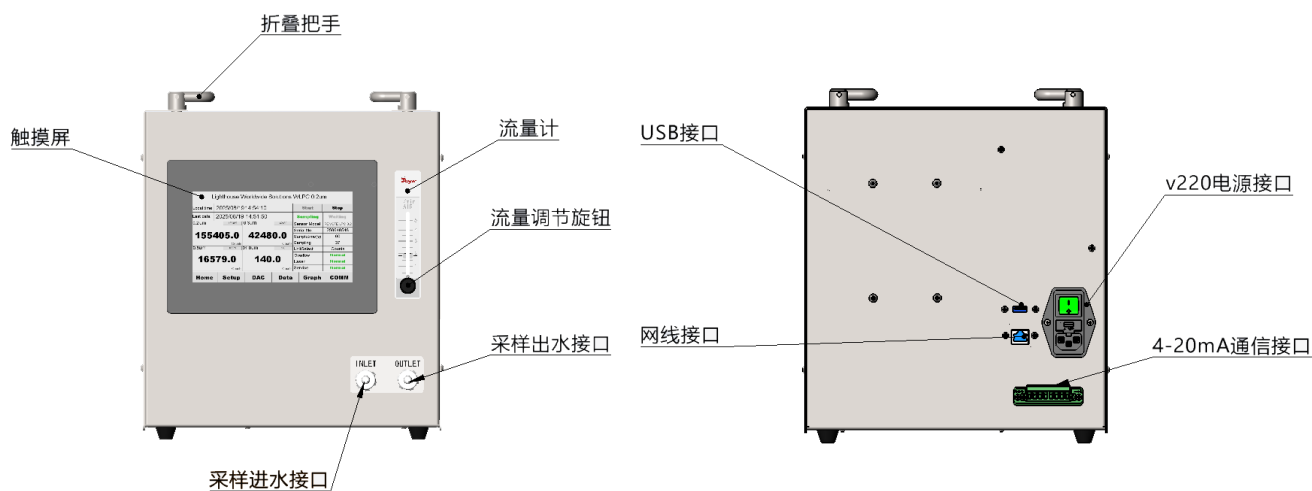
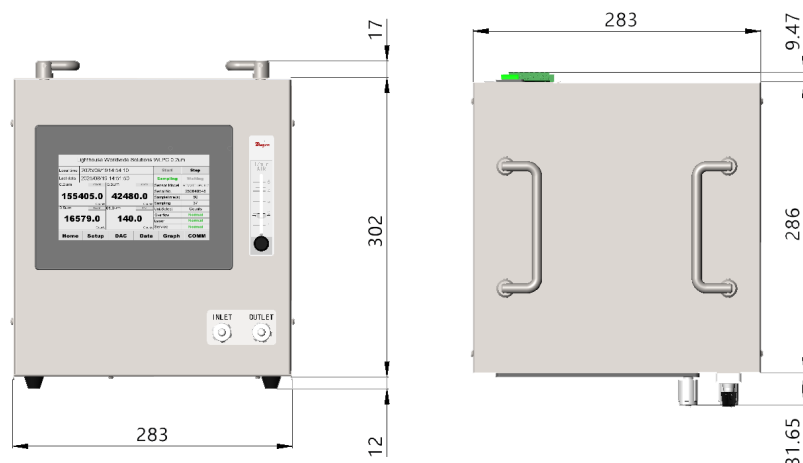
- 不锈钢外壳，耐压、耐腐蚀设计
- 流速为100mL/minute
- 检测粒径 0.1-100 μ m
- 4 个通道的数据
- 通道数据可累加、分区、原始值、浓度值输出
- 采样数据可导出
- 历史数据曲线查看
- 支持4-20mA输出
- 支持MQTT、Modbus通信

规格 Specifications

Features	Remote LPC 0.1 μm	Remote LPC 0.2 μm	Remote LPC 0.3 μm	Remote LPC 0.5 μm
Size Range	0.1-0.5 μm	0.2-2.0 μm	0.3-3.0 μm	0.5-100.0 μm
Standard 4 Channels	0.1, 0.2, 0.3, 0.5 μm	0.2, 0.3, 0.5, 0.7 μm	0.3, 0.5, 0.7, 1.0 μm	0.5, 0.7, 1.0, 2.0 μm
Optional 4 Channels		0.2, 0.5, 1.0, 2.0 μm	0.3, 0.5, 1.0, 3.0 μm	0.5, 1.0, 2.0, 5.0 μm
Concentration Limit	64000 counts/ml @	4000 counts/ml @	4000 counts/ml @	4000 counts/ml @
	5% coincidence error.	5% coincidence error.	5% coincidence error.	5% coincidence error.

Flow Rate	100 mL / minute.
Laser Source	Laser Diode.
Enclosure	Stainless steel.
Sample Inlet/Outlet Connection	1/4" FlaretekTM
Sample Temperature	32 - 140°F (0 - 60°C)
Sample Pressure	150 PSI.
Wetted Surface Materials	Quartz, PTFE, PFA.
Power	110 - 220 AC.
Dimensions	28.3 x 28.6 x 33.1 cm.
Weight	10.5 kg.

尺寸 Size



实时监测

直观的通道数据显示，实时监测各通道的数据和设备的状态

Local time	2025/08/19 14:54:10		Start	Stop
Last data	2025/08/19 14:51:50		Sampling	Waiting
0.2um	155405	0.3um	42480	
155405.0		42480.0		
0.5um	16579	0.10um	140	
16579.0		140.0		
Sensor Model		REMOTE LPC 0.2		
Serial No.		250640548		
Sampletime(s)		60		
Sampling		37		
UnitSelect		Counts		
Overflow		Normal		
Laser		Normal		
Service		Normal		

4-20mA输出

支持4-20mA输出，直观显示通道数据

4-20mA DAC Analog		4-20mA DAC Digital			
		0.2um	0.3um	0.5um	0.10um
14.967 mA	15.309 mA	14967	15309	14265	13600
0.2um 137090.0	0.3um 35342.0	Readback	14967	15309	14265
		Gain	0.08	0.32	0.80
			0.80	80.00	
Scale					
0.2um		0.3um			
200000		50000			
0.5um		0.10um			
20000		200			

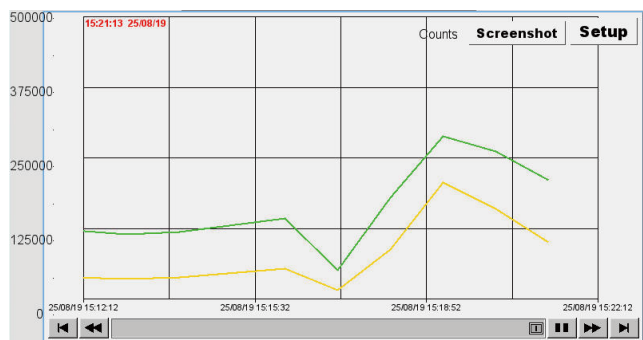
数据导出

以表格的形式查看实时监测数据，可导出至USB存储设备

datetime	CH01	CH02	CH03	CH04	unit
2025/08/19 15:20:49	211037.0	100106.0	55930.0	306.0	Counts
2025/08/19 15:19:49	260761.0	159487.0	101439.0	687.0	Counts
2025/08/19 15:18:49	287758.0	206364.0	141172.0	904.0	Counts
2025/08/19 15:17:49	179131.0	88046.0	51730.0	287.0	Counts
2025/08/19 15:16:49	50755.0	15342.0	6595.0	22.0	Counts
2025/08/19 15:15:49	142018.0	53066.0	27449.0	196.0	Counts
2025/08/19 15:14:49	131503.0	45361.0	22089.0	134.0	Counts
2025/08/19 15:13:49	119312.0	38360.0	17153.0	100.0	Counts
2025/08/19 15:12:49	114875.0	34781.0	14646.0	80.0	Counts
2025/08/19 15:11:49	121896.0	38599.0	16954.0	99.0	Counts
2025/08/19 15:10:49	134819.0	44955.0	21289.0	145.0	Counts
2025/08/19 15:09:49	147194.0	53811.0	27180.0	272.0	Counts
2025/08/19 15:08:49	155680.0	58793.0	30706.0	280.0	Counts
2025/08/19 15:07:49	146496.0	47891.0	22963.0	168.0	Counts
2025/08/19 15:06:49	135472.0	35728.0	14352.0	86.0	Counts
2025/08/19 15:05:49	118790.0	25339.0	7654.0	27.0	Counts
2025/08/19 15:04:49	73583.0	19338.0	6063.0	31.0	Counts
2025/08/19 14:56:47	126534.0	32338.0	11657.0	108.0	Counts
2025/08/19 14:55:47	129318.0	33802.0	12019.0	89.0	Counts
2025/08/19 14:54:47	137090.0	35342.0	12832.0	120.0	Counts

曲线查看

对监测数据进行存储和管理，生成粒径分布曲线，可保存至USB存储设备



Acceptable Chemicals

- Water
- Deionized Water
- Nitric Acid 70%
- Sulphuric Acid 96%
- Hydrochloric Acid 37%
- Ammonium Hydroxide 29%
- Hydrogen Peroxide 30%
- Phosphoric Acid 86%
- Potassium Hydroxide
- Isopropyl Alcohol
- Acetone
- N-methyl Perryiodine

Symbol

- H₂O
- DI H₂O
- HNO₃ 70%
- H₂SO₄
- HCL
- NH₄OH
- H₂O₂
- H₃PO₄
- KOH
- IPA
- C₂H₂O
- NMP

Unacceptable Chemicals

- Nitric Acid
- Ammonium Fluoride
- Hydrofluoric Acid 50%
- Hydrofluoric Acid 5%
- Hydrofluoric Acid 0.5%
- Tetramethylammonium Hydroxide
- Buffered Hydrofluoric Acid
- Buffered Oxide Etch

Symbol

- HNO₃
- NH₄F
- HF 50%
- HF 5%
- HF 0.5%
- TMAH
- BHF
- BOE