DATASHEET

LS liquid batch samplers

Lighthouse

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LS-20 / LS-60

LIQUID BATCH SAMPLERS

LS Model Liquid Batch Samplers are an integrated syringe sampler and optical particle counting system with an easy-to-use Windows-based software interface.

With a sample flow rate of 60 ml/min or 20 ml/min, Liquid Batch Samplers provide unprecedented measurement speed and accuracy. Using a high-accuracy syringe pump flow control system and high-volume sensor, it is the perfect tool for multiple batch sampling applications.

Liquid Batch Samplers are easy to configure and operate. Data is automatically recorded and readily available in real-time graph and tabular form. Reports can be preconfigured and printed at the touch of a key.

Features

- 0.1 - 100.0µm or 1.0µm-200µm Particle Size Channels
- Sample volumes 1mL to 1 Liter
- 8 channel sizes
- Precise syringe pump flow control
- Stainless steel enclosure
- Built-in magnetic stirrer
- Compact footprint
- RS-485 MODBUS communication
- 2 Year Warranty



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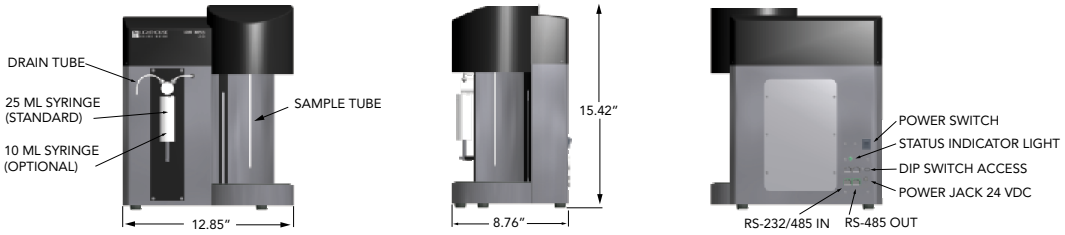
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DOCUMENT VERSION 2.0.0

LIQUID BATCH SAMPLERS

LS-20 / LS-60



	LS-20	LS-60
Minimum Size Detection	1.0 µm	0.1 µm
Standard 8 channel sizes	1.0, 2.0, 3.0, 5.0, 10.0, 15.0, 25.0, 50.0, 100.0, 200.0 µm	0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.5 µm
Size Ranges	User definable 1.0 - 200.0 µm	0.1 - 0.5 µm; 0.2 - 2.0 µm; 0.3 - 3.0 µm; 0.5 - 100.0 µm
Flow Rate	20 ml/minute	60 ml/min
Reports	Current USP, EP, JP, KP, CP and custom recipess	Current USP, EP, JP, KP, CP and custom recipes

Laser Source	Laser Diode
Calibration	NIST Traceable
Syringe Sizes	10 ml, 25 ml
Maximum Sample	1 Liter
Communication Mode	RS-485 MODBUS
Wetted Components	Teflon (PFA), Quartz, Kalrez, Kel F, Polypropylene
Stirrer	Magnetic with adjustable speed
Connectors	RJ-45
Supporting Software	LS20 Software/ LS60 Software
Enclosure	Stainless Steel
Power	100-240 VAC, 24 VDC
Dimensions	12.875"(l) x 8.75"(w) x 14.75"(h) [32.7 x 22.2 x 37.5 cm]
Weight	20.5 lbs (9.3 kg)
Environmental Conditions	Operating: 50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing
	Storage: 14°F to 122°F (-10°C to 50°C) / up to 98% non-condensing
Minimum System Requirement	Windows 7™, Windows 10™ or Windows 11™compatible computer.

Includes: Instrument, USB to RJ45 cable, power supply, 500 ml beaker with edge guard, 10 feet of tubing, flow cell cleaning solution, nut and ferrule kit, 2x magnetic stir bars; Operators Manual on USB key; Calibration Certificate and Carry Case with wheels.

Optional: Printed operating manual, IQ/OQ Validation Documents, 10ml syringe; 5-piece beaker set (50, 100, 250, 600, 1000 ml beakers). Certificate of origin.

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