

LP100A

BENCHTOP ANALYZER

The compact and robust LP100A analyzer is equally at home on a process line, laboratory bench or as a portable field unit. It is supplied with fully featured control software capable of complex particle analysis and data reporting, including serial data output over Modbus TCP/IP.

BUILT FOR HARSH ENVIRONMENTS

Its stainless steel construction and flow cell rated for continuous use at 120 Bar (1740 PSI/12000 kPa) with the capability to operate with process liquid temperatures up to 120 °C (248 °F) make the analyzer ideal for use in harsh environments. Options for higher temperatures and pressures are available on request.

The LP100A is connected to its control laptop computer by a Gigabit Ethernet link. Cable lengths between 5 and 100 metres can be specified to ensure that the laptop and operator can be sited in a safe and convenient location.

PORTABLE PARTICLE ANALYSIS

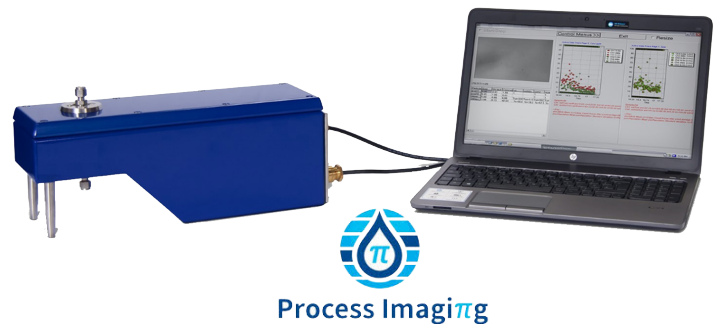
The compact form of the analyzer can be installed close to the sample point or used as a portable process optimization tool. There is no upstream sample conditioning required.

Both the analyzer and laptop require a power supply, but the LP100A can be powered with a battery pack, allowing use in the field for several hours. Easy, flexible investigations can be made at remote locations or at seldomly used sample points.

ACCESSORIES

- Supplied with steel legs for benchtop use
- Optional peristaltic pump
- Optional flight case for easy transportation of the analyzer and laptop

Portable and rugged—suitable for lab or field



Process Imaging

BY PROCESS IMAGING LTD

FEATURES

- Compact form can be installed close to the sample point or used as a portable process optimization tool
- Control software capable of complex particle analysis
- Wetted materials to meet fluid specifications
- Rugged flow cell rated for high pressure and harsh environments

LP100A

DATA SHEET

GENERAL

Type	Droplet & Particle Analyzer
Manufacturer	Process Imaging Limited
Model	LP100A
Sample temp limits	0 – 120°C (32 – 248° F)
Max operating pressure	120 Bar (1740 PSI)
System description	Benchtop analyzer for online or batch use
Instrument fittings	Swagelok 316SS

INSTRUMENT CHARACTERISTICS

Accuracy	±2% Full Scale	
Repeatability	±1.5%	
Linearity	±7.5% in range 0 – 400PPM	
Drop size range	1.2 – 150 microns	
Particle size range	1.2 – 150 microns	
Concentration	0 – 2500 ppmV	
Data outputs	On-screen display or Serial Data by Modbus TCP/IP for all data and alarms if necessary	
Flow rates	Flow through measuring zone	Up to 4 l/min, either pumped control for lab batch, or online high flow module

PHYSICAL CHARACTERISTICS

Sample feed	1/4" for lab use, 1/2" for online use	
Analyzer drain	1/4" for lab use, 1/2" for online use	
Mounting	Analyzer	Table top
	Control computer	Table top
Weights (dry)	Analyzer	8 kgs
	Control computer	3 kgs
Materials	Analyzer wetted	316 SS, Viton, industrial sapphire
	Analyzer environment	316 SS
Enclosure rating	Analyzer	IP65
Cable gland	Peppers, brass, M20	
Environment	Analyzer enclosure	0 °C – 50 °C ambient
	Control computer	10 °C – 30 °C ambient HVAC

ELECTRICAL DATA

Supply voltage	Analyzer	110/220 VAC 50/60 Hz
	Control computer	110/220 VAC 50/60 Hz
	Pump	110/220 VAC 50/60 Hz
Consumption	Analyzer	5 Watts
	Control computer	75 Watts
	Pump	253 Watts



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