



# ASPROC

OIL IN WATER ANALYSERS  
SOLIDS IN WATER ANALYSERS  
PARTICLE SIZE ANALYSERS

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## Process Imaging LP100A



### The Process Imaging LP100A

The compact and robust LP100A analyser 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.

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 of up to 120°C (248°F) make the analyser ideal for use in harsh environments. Options for higher temperatures and pressures are available on request.

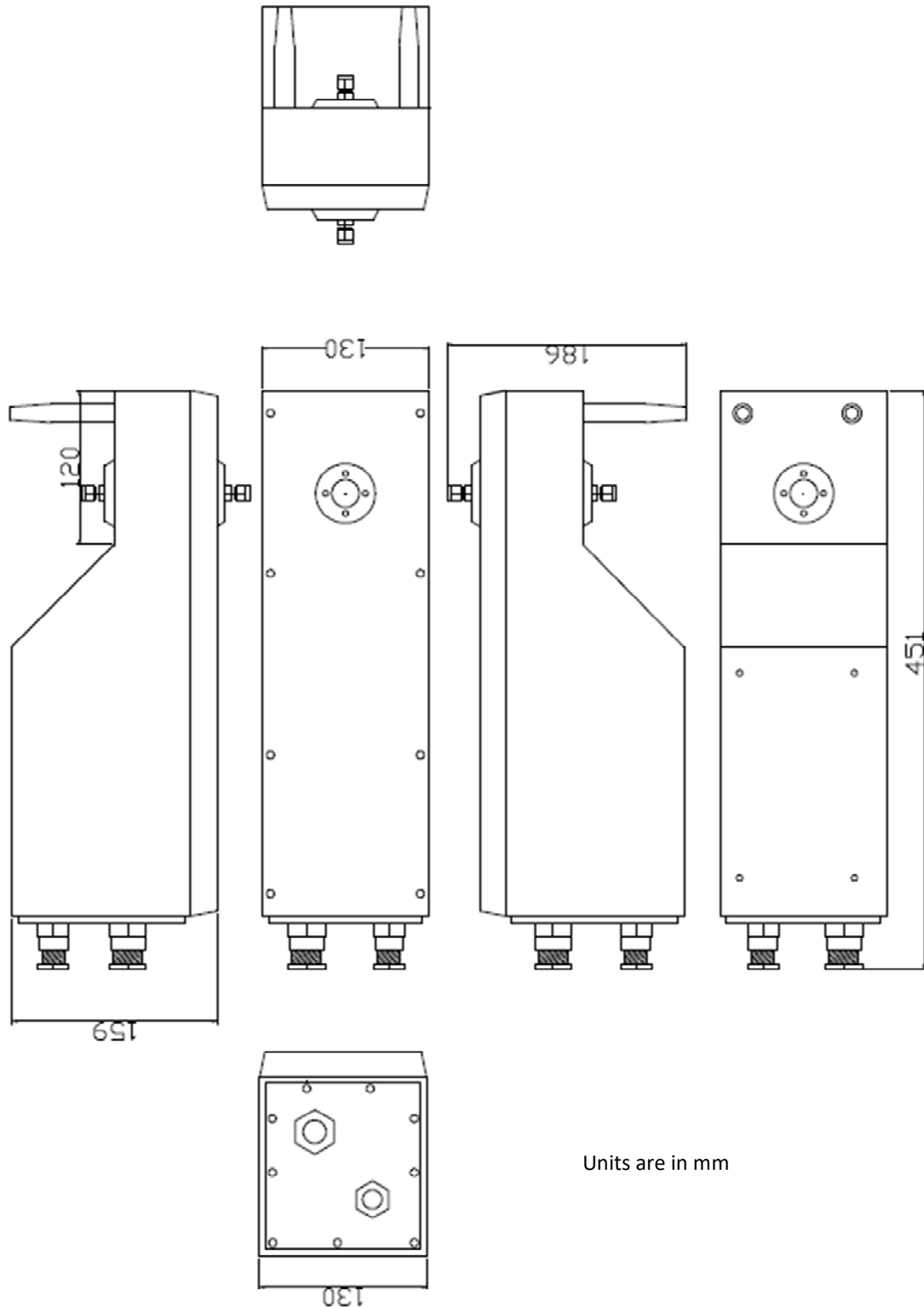
The compact nature of the analyser head allows installation very close to the sample point to ensure the best possible sampling is achieved and the ability to work with flow velocities of up to 5ms<sup>-1</sup> ensure great response to process changes and minimal flow control requirements. There is no upstream sample conditioning required.

The LP100A is connected to its control laptop computer by a Gigabit Ethernet link and 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.

Both the analyser and laptop each require their own power supply but the LP100A can be provided with a battery pack, enabling the analyser and its laptop computer to be used in the field without connection to a local power supply for several hours. This allows easy and flexible investigations to be made at remote locations or at sample points that are used only occasionally.

The LP100A weighs approximately 8 kilogrammes and can be supplied with its laptop in a rugged travel case where portability is critical.





**The Process Imaging LP100A General Arrangement Drawing**



<b>General</b>			
1.01	Type	Droplet & Particle Analyser	
1.02	Manufacturer	Process Imaging Limited	
1.03	Model	LP100A	
1.04	Sample Temp Limits	0 – 120°C (32-248 °F)	
1.05	Max Operating Pressure	120 Bar (1740 PSI)	
1.06	System Description	Bench top analyser for online or batch use	
1.07	Tag Number	TBC	
1.08	Instrument Fittings	Swagelok 316SS	
<b>Instrument Characteristics</b>			
2.01	Accuracy	±2% Full Scale	
2.02	Repeatability	±1.5%	
2.03	Linearity	±7.5% in range 0 – 400PPM	
2.04	Drop Size Range	1.2 – 150 microns	
2.05	Particle Size Range	1.2 – 150 microns	
2.06	Concentration	0 – 2500 ppmV	
2.07	Data Outputs	Data displayed on control computer screen or can provide Serial Data by Modbus TCP/IP for all data and alarms if necessary	
2.08	Flow Rates	Flow through measuring zone	Up to 4 l/minute, either pumped control for lab batch use or using high flow module for online use
<b>Physical Characteristics</b>			
3.01	Sample Feed	¼” for lab use, ½” for online use	
3.02	Analyser Drain	¼” for lab use, ½” for online use	
3.03	Mounting	Analyser	Table Top
		Control Computer	Table Top
3.04	Weights (dry)	Analyser	8 Kgs
		Control Computer	3 Kgs
3.05	Materials	Analyser Wetted	316 SS, Viton, Industrial Sapphire
		Analyser Environment	316 SS
3.06	Enclosure Rating	LP100A Analyser	IP65
3.07	Hazardous Area	Not Rated	
3.08	Classifications	None	
3.09	Cable Gland	Peppers, Brass, M20	
3.10	Environment	Analyser	0 – 50°C Ambient
		Control Computer	10 - 30°C Ambient HVAC
<b>Electrical Data</b>			
4.01	Supply Voltage	Analyser	110/220 V AC 50/60 Hz
		Control Computer	110/220 V AC 50/60 HZ
		Pump	110/220 V AC 50/60 HZ
4.02	Consumption	Analyser	5 Watts
		Control Computer	75 Watts
		Pump	253 Watts
<b>Notes</b>			
1	Flow cell is rated to 120 bar. If using online, ensure any sampling accessories used are suitably rated.		
2	The analyser is supplied with 2 steel legs for bench top use or can be attached in any orientation to appropriate fixings.		
3	Wetted materials to meet fluid specifications		
4	Serial data can be provided by Modbus over TCP/IP		
5	Peristaltic pump can be provided if required		

