

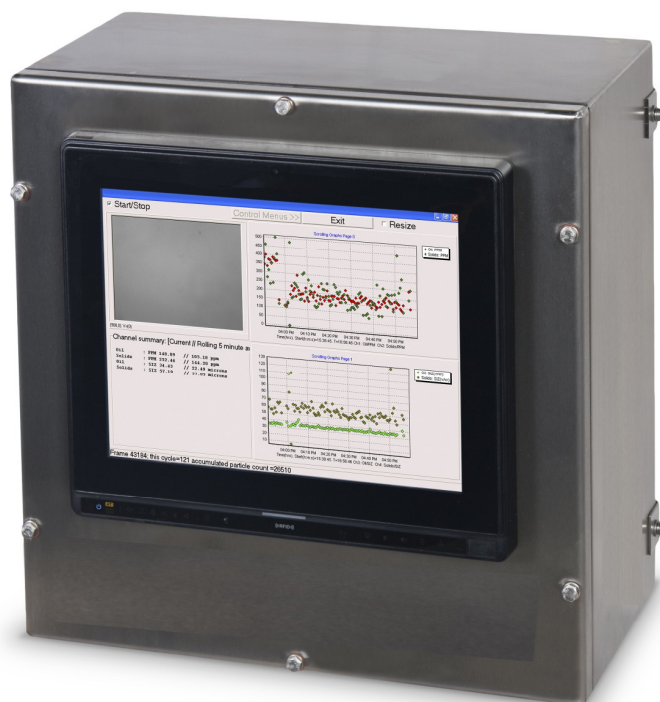
**Process Fluid Analysers
Particle Size Analysers**



Process Imaging π **g**



Process Imaging IF100A



Process Imaging IF100A

For a wide range of applications on-line particle analysis is the most appropriate and safest way to monitor process fluids, waters, oils, fuels and hydraulic fluids for liquid and solid contamination.

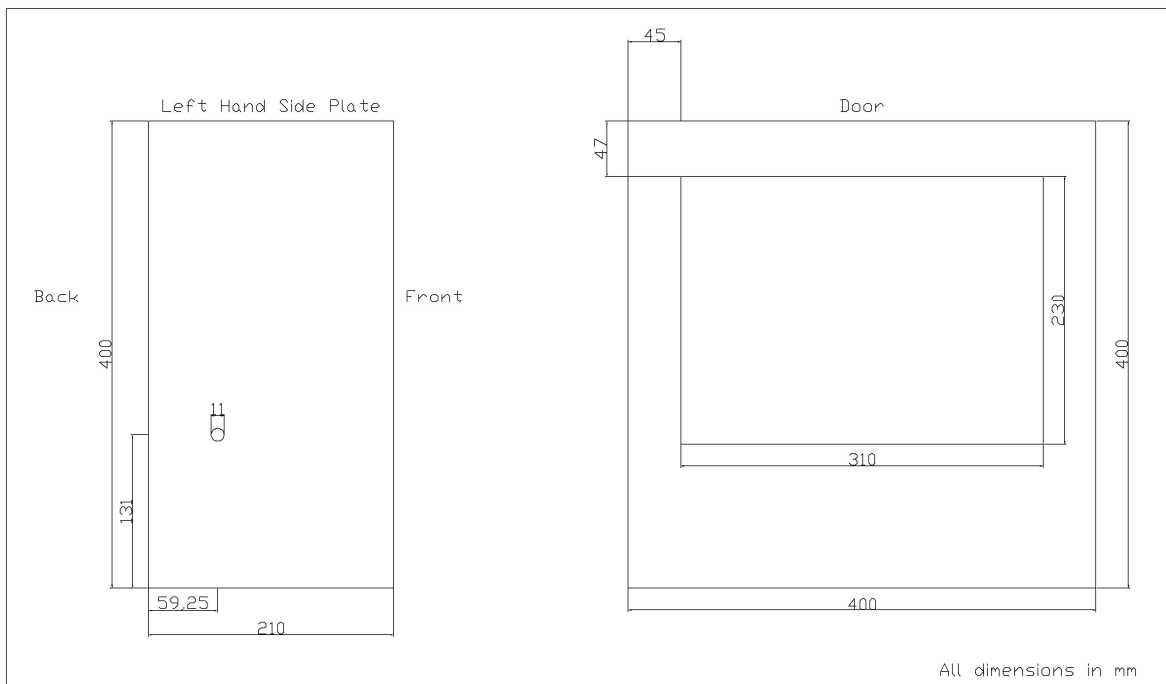
The Process Imaging IF100A uses automated video microscopy to provide enhanced particle data including particle counts, particle size distributions and full differentiation between particulate types, e.g. fluid contaminants and solid particles.

With a flow cell constructed from 316 stainless steel, sapphire and Viton™ the IF100A is rugged and able to cope with real-world on-line process conditions including high fluid temperatures and pressures.

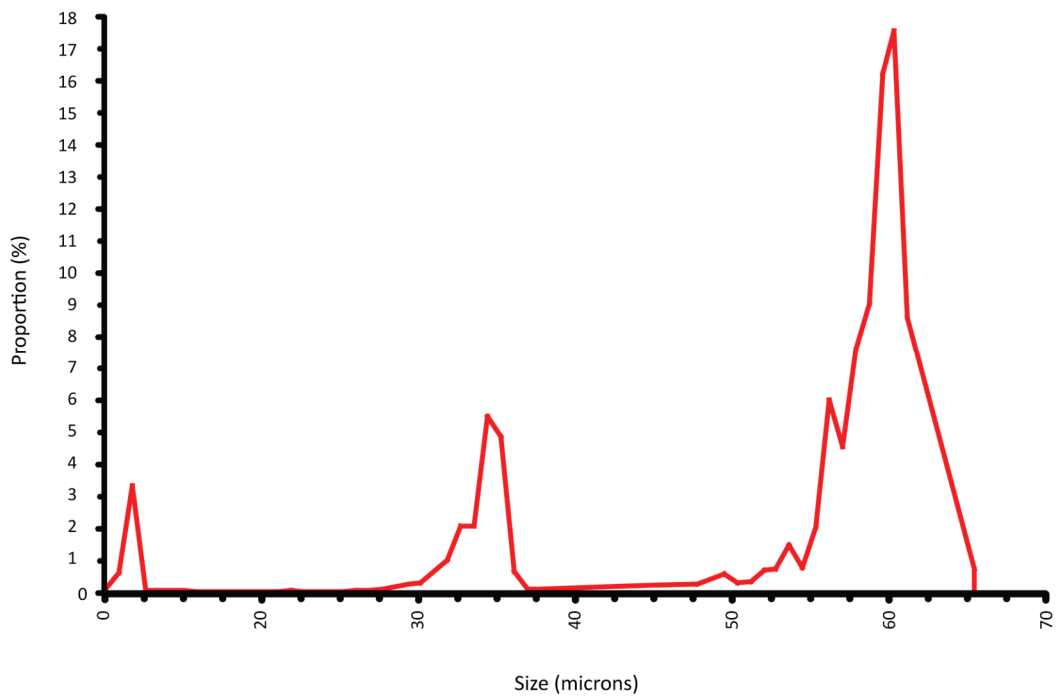
Process Imaging's IF100A is a single box product operated for simple installation and is entirely operated by touch-screen interface and is pre-configured to be usable straight out of the box without the need for user training.

Fluid flows through the IF100A's flow cell, which has a pair of sapphire windows, and the camera looks through the fluid at the light source so that the particulates are backlit, then individual images of the particles are frozen and analysed.

Using image analysis techniques to differentiate between particles, droplets and gas bubbles the IF100A can differentiate between types of particles and record particle counts, size distributions and concentrations.



Process Imaging IF100A General Arrangement Drawing



Particle Size Distribution Graph



Process Imaging IF100A Data Sheet

Particle Size:	1.2 to 150 microns
Resolution:	0.375 microns
Particle Concentrations:	0-2000 ppm
Sample Temperature:	-10 to 200 °C / 15 – 392°F
Sample Pressure:	0-150 bar / 0-2175 PSI
Power Supply:	110 – 230V 50/60 Hz
Data Output:	Modbus TCP/IP
Enclosure:	304SS - Weight 20 Kgs / 44 lbs
Sample Connections:	¼" NPT F
Options:	24 VDC Power Supply Modbus RTU or 4-20mA outputs Flow control module 316SS Enclosure



Process Imagiπg