

# Liquid Particle Counter FM-LPC-A203



## Description :

Liquid Particle Counter FM-LPC-A203 using light extinguishing principle, effectively determines the size and count of fine particulate contaminants present in oil and other liquids. Calibrated in accordance with ISO 11171:2010, ISO 4402: 1991 this counter supports broad range of testing standards like ISO 4406, NAS 1638. Equipped with a vacuum device for effective extraction of high viscosity liquids and to remove fine bubbles present in liquid.

## Specifications :

Light source	Semiconductor laser (5 mW, 780 nm, laser diode)
Particle size range	1 to 100 $\mu\text{m}$ (ISO 4402), 4 to 70 $\mu\text{m}$ (C) (ISO 11171)
Sensitivity	1 $\mu\text{m}$ (ISO 4402) or 4 $\mu\text{m}$ (C)
Detection channel	24 channels
Sample volume	10 ml
Syringe specification	10mL (standard configuration) (1mL and 25mL optional)
Maximum particle concentration	12000 particles/ ml
Sample flow rate (speed)	15 ml/ min
Sample volume accuracy	$\pm 3 \%$
Maximum sample volume	Up to 1000 mL
Maximum vacuum	-0.8 bar

Maximum pressure	6 bar
Sample liquid viscosity	< 350 cSt
Sample temperature	≤ 70°C
Environmental temperature	0 to 50°C
Environmental humidity	0 to 80% relative humidity, non-condensing
Display	7 inch color touch screen display
Data output	RS232, USB, built-in printer
Power supply	AC 220 V ± 10%, 50 Hz
Dimension (L×H×W)	415 × 585 × 305 mm
Weight	34 kg

## Features :

- Benchtop design
- Precision syringe pump sampling
- Pressurized vacuum device for effective detection of solution degassing
- 24 detection channels
- 7 inch touch screen user friendly display
- Powerful data analysis and management functions
- Built-in database management system
- Complied with FDA 21 CFR part 11
- Equipped with RS232 interface

## Applications:

Used in determination of micro particle pollutants in liquid medium like hydraulic oil, lubricating oil, transformer insulating oil, gear oil, aviation kerosene, organic liquid, polymer solutions etc.



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