



LPA3

Portable Particle Counter

**TAKE THE LAB
WITH YOU
WHEREVER
YOU GO**

NOW AVAILABLE FOR
**AVIATION
FLUIDS**



PASSION TO PERFORM

LPA3

The world's most advanced and versatile mainstream portable particle counter

Whether you are working in the lab or in the field, the next-gen LPA3 delivers a fast, accurate and comprehensive hydraulic health check in a robust yet portable package.

The LPA3 delivers particle counting to all international standards, as well as moisture and temperature measurement. Its real-time monitoring and proactive maintenance safeguards machinery, enhances performance and productivity, and reduces costs and unplanned downtime

Featuring the latest breakthroughs in optical and photodiode technology, the new LPA3 enhances the reliability and longevity of complex hydraulic systems and is ideal for systems quality control in in-house manufacturing applications.

SIX REASONS LPA3 SETS NEW STANDARDS



ACCURACY

Using the latest LED optical technology, the LPA3 is accurate to $\pm 1/2$ code for 4, 6, 14 μ m(c).



MOBILITY

Highly durable and yet perfectly portable
- weighing in at just 10 kg (22 lb).



ANALYSIS

Real-time monitoring and proactive maintenance.



SPEED

High-speed sample times over 16 times quicker than the LPA2.



EFFICIENCY

Slashes costs and downtime, protects machinery and rapidly pays for itself.



EASE OF USE

Sophisticated yet simple to use, the LPA3 can be mastered without formal training.

Robust and durable
co-polymer body case

Greater storage capacity
- store up to 4000 tests

Increased programmable sample volumes
(up to 100 ml)

Instant results
download
via USB



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215-679-6645 | 215-679-6648
sales@pfpusa.com | www.pfpusa.com

“ Our new LPA3 has enabled our customers to be sure of the cleanliness of their hydraulic systems. Warranty claims can be resolved easier, customers are confident in our process and we can cut down on oil sampling lead times. ”

Ryan Langley

Managing Director, Hercules Hydraulics Ltd

Predictive maintenance technology - identifying risks before they impact performance

Pressure monitoring for greater accuracy and consistency

Fluid monitoring - water control and temperature

Simple yet sophisticated software

Optional thermal printer for instant hard copy of results

Online real-time monitoring and super-fast sample times

Programmable 10.1" full colour touch-screen display

Long-life lithium ion battery



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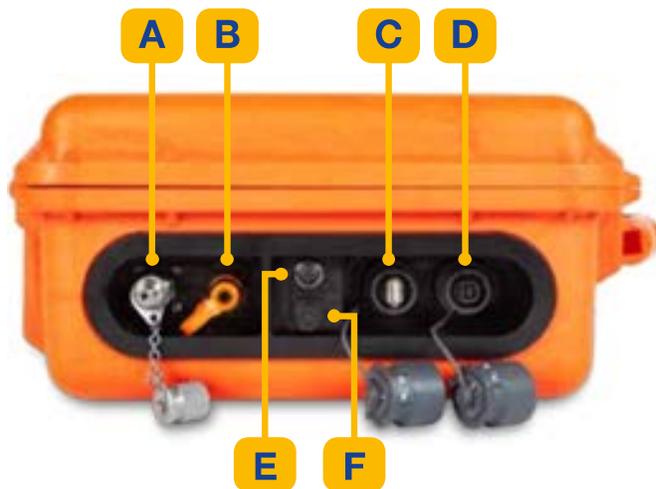
All the benefits of the laboratory in the field

The LPA3 is robust and light - weighing in at just 10 kg, and its ergonomic space-efficient design enables operators to work effectively in a wide variety of challenging work environments - without having to make sacrifices to functionality.



Market-leading versatility

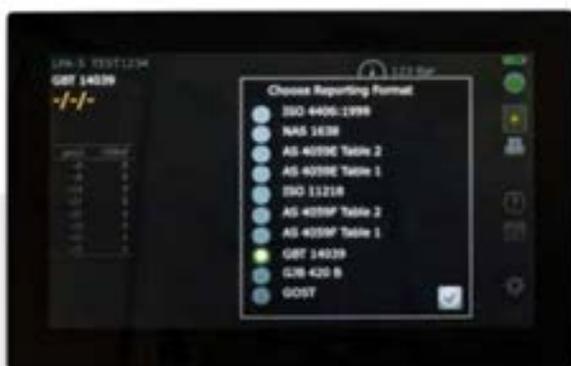
Not only is the LPA3 designed to thrive in a wide range of sectors and applications, the machine can also be personalised for peak performance with operators able to tailor sample volumes and flush sizes; the amount of tests run concurrently; Capable of completing the 100ml sample test in just one minute.



Range of different connections

Easy-fit standard hydraulic connections maintain high environmental protection ratings. USB data connection enables rapid download of results to a data stick.

- A:** M16 x 2 Test point connection
- B:** Quick-release waste capture
- C:** USB data stick download port
- D:** PC-USB connection
- E:** Power on/off with built-in bi-colour LED
- F:** IP rated DC charging port



Wide range of reporting formats

Wherever you are working and whatever standards you are using we've got you covered. We've also added five* new reporting standards.



Easy to use interface

Simple yet sophisticated software; highly responsive touch-screen with no need for a stylus; and a customisable home screen for all your key performance information at-a-glance.



Fast, smooth learning curve

Designed for ease of use, the LPA3 enables first time operators to get up and running in minutes - without the need for a dedicated training programme. The machine's sophisticated functionality sets new standards in the industry but is surprising easy to master, saving customers time and money.

LPA3 Specification



Technology	High precision LED light extinction automatic optical particle counter
Particle Sizing	>4, >6, >14, >21, >25, >38, >50, >70 µm(c)
Analysis Range	ISO 4406 Codes 8 to 24 NAS 1638 Class 2 to 12 AS4059/ISO 11218 Rev E, Table 1 Size Codes 2-12 AS4059/ISO 11218 Rev E, Table 2 Size Codes, A:000 TO 12, B:00 to 12, C: 00 to 12, D: 2 to 12, E: 4-12, F: 7 to 12 AS4059 Rev F, Table 1 Size Codes 2-12 AS4059 Rev F, Table 2 Size Codes cpc [000 to 12, 00 to 12, 00 to 12, 2 to 12, 4 to 12, 7 to 12] GBT14039 Codes 8-24 GJB420B Size Codes, A:000 to 12, B:00 to 12, C: 00 to 12, D: 2 to 12, E: 4-12, F: 7 to 12 Please Note: (Lower Limits are Test Volume dependent)
Accuracy	± 1/2 ISO code for 4, 6, 14 µm(c) ±1 code for 21, 25, 38, 50, 70 µm(c)
Calibration	Individually calibrated with ISO Medium Test Dust (MTD) based on ISO 11171, on equipment certified by I.F.T.S. ISO 11943
Viscosity Range	Up to 400 cSt
Fluid Temperature	Minimum: -25°C / +41°F Maximum: +80°C / +176°F
Ambient Temperature	Minimum: -10°C / +14°F Maximum: +80°C / +176°F
Pressure	Minimum: 2 bar / 29 PSI Maximum: 420 bar / 6091 PSI
Sample Volume / Test time	Maximum 100 ml per pump stroke. Test volumes programmable by end user
Moisture Sensing	% RH (Relative Humidity) ±3%
Temperature Measurement	±3%
Data Storage	Approximately 4000 timestamped tests in the integral LPA3 memory
Environmental Protection	IP 66 (Lid closed) IP54 (Lid open)
Power	Long-life Lithium Ion internal rechargeable battery (mains charger)
Weight / Dimension	10 kg, Height 292 mm, Depth 155 mm, Width 435 mm

FLEXIBILITY BUILT-IN AS STANDARD

The ultimate hydraulic health check for a wide range of different sectors

Fast, accurate and easy to use, the LPA3 quickly identifies the levels of contamination in your systems at the touch of a button.

Offering both real-time monitoring and predictive maintenance technology it is an essential tool for anyone serious about maximising the efficiency and performance of hydraulic systems.

Reduced downtime, lower operating costs and longer lifespans of machinery are just some of the benefits the LPA3 will deliver.



Mobile

Portable and precise, the LPA3 is ideal for applications where accuracy is vital even in challenging and variable working conditions.



Offshore

Capable of handling aerospace phosphate ester, mineral and synthetic oil, subsea/offshore water based fluids and more....



Industrial

Keeps production lines working at full capacity – ensuring the best in performance and productivity.



Aviation

Minimises aircraft on ground downtime, dramatically reducing operational and maintenance costs.



Test rigs

Delivers accurate and reliable comprehensive hydraulic health checks to a host of international standards.



Machine tools

Ideal for precision tooling, injection moulding, presses and power packs - supports a wide range of industries.



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Why choose PFP as your partner for contamination control solutions?

PFP prides itself on being the best at providing the highest quality, most reliable portable particle counters in the industry.

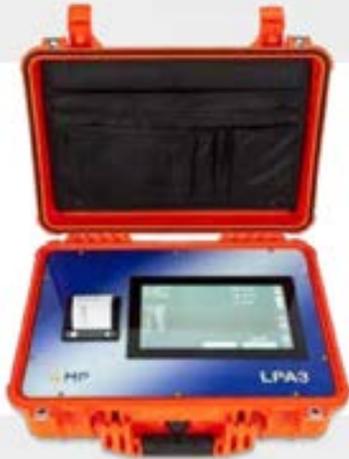
The celebrated LPA2 set new standards in the industry at launch - and this new incarnation enhances and improves the original machine's market-leading functionality - delivering faster results, greater accuracy, more storage, extensive customization options, and a more robust and portable design.

When the vast majority of hydraulic failures are caused by contamination...can you afford not to team up with PFP and ensure your machinery is maximizing its efficiency and potential?

Our Product Ranges

Portable Particle Counters

Innovative products to suit a variety of sectors and budgets from the CML 2.0 to the Airbus approved Aviation edition LPA2.



Bottle Samplers

A choice of 110ml and 500ml models, ideal for use in laboratories where fluid sampling at point of use is inaccessible or impractical.



In-line Contamination Monitors

Our market-leading ICM 2.0 and ICU models deliver the ultimate hydraulic health checks and are also Industry 4.0 ready.

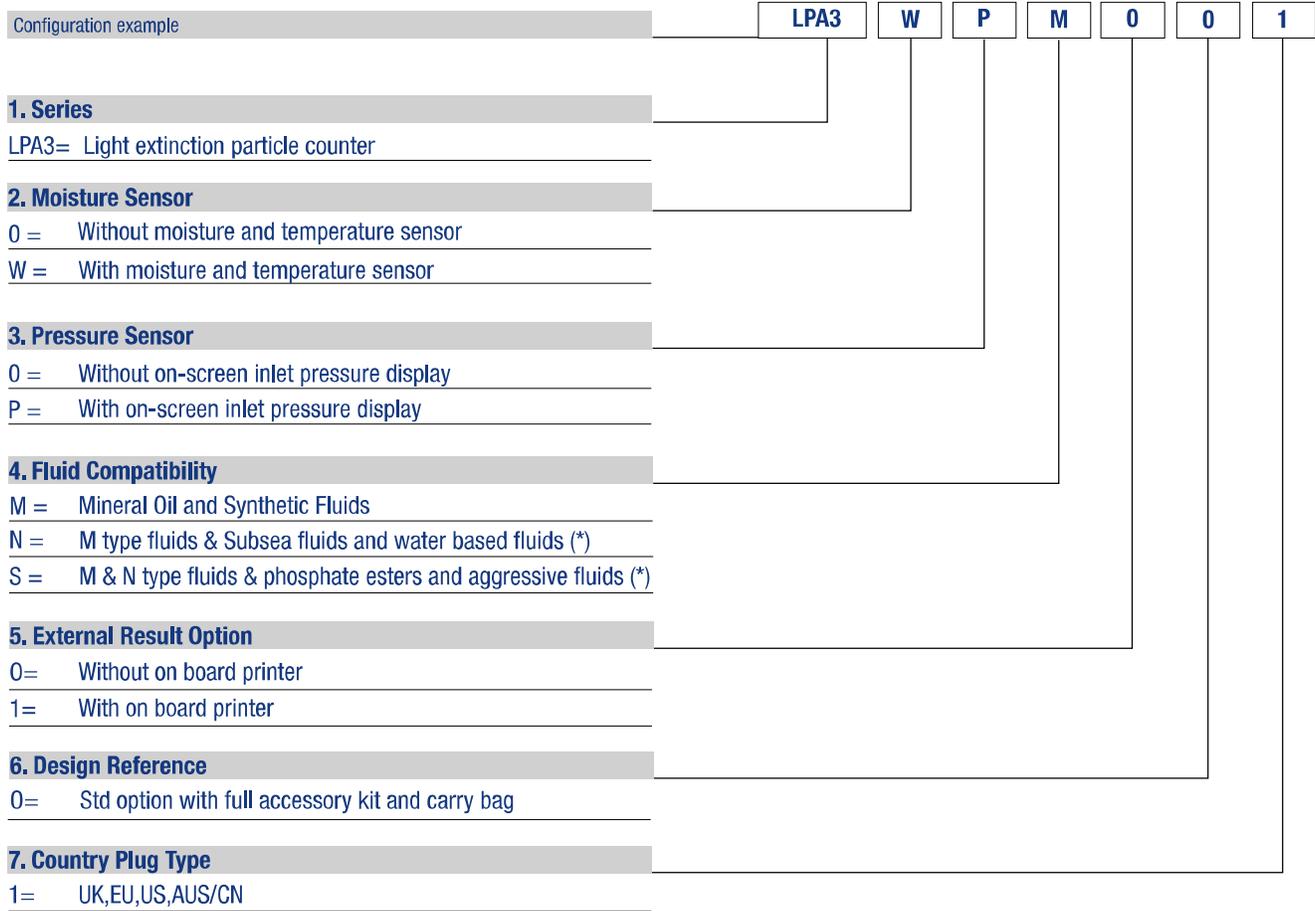


Off-line Filtration Units

A comprehensive range of offline filling and filtration units to help service and maintenance teams deliver outstanding oil and hydraulic fluid cleanliness.

LPA3 How to order

LPA3 is compatible with PFP range of bottle samplers.



(*) N and S version, moisture sensor (W) not available
Available with Screen Protector (Part number 63.095000). Consult your local branch for further details

