

### LPA2

The LPA2 is a highly precise, lightweight & fully portable instrument suitable for on-site and laboratory applications.

It can automatically measure and display particulate contamination, moisture and temperature levels in various hydraulic fluids.

The LPA2 can be connected to the MP range of bottle sampler products to enable laboratory based particle counting!

### Benefits

The LPA2 is a solution for online monitoring of contamination in your hydraulic fluid, providing an immediate hydraulic health check.

It employs predictive maintenance procedures to help reduce downtime and in turn costs.

- ◆ LPA2 saves time: online/realtime monitoring
- ◆ Immediate hydraulic health check
- ◆ Predictive maintenance procedures can be employed
- ◆ Reduced downtime for industrial and mobile plants
- ◆ Reduced costs associated with down time

### Features

**Exclusive MP Filtri technology. The combination of the two lasers with the unique optics and photodiode package enables the LPA2 to give increased accuracy combined with excellent repeatability.**

- ◆ **W-Option-** Water Saturation level (RH%) and fluid temperature sensor option
- ◆ **P-Option-** Live Pressure Readout (bar) on display screen.
- ◆ Lightweight (Lightest in class)
- ◆ Fully portable
- ◆ Precision Instrument
- ◆ Full Calibration based on ISO11171
- ◆ Measures and displays the following international standard formats; ISO 4406:1999, NAS 1638, AS 4059E
- ◆ Data logging and 600 test result memory
- ◆ Manual and remote control flexibility
- ◆ LPA View software (included)
- ◆ Full size QWERTY keyboard
- ◆ Various test programme settings
- ◆ Full accessories kit included
- ◆ Internal rechargeable battery capable of performing 100 tests between charges

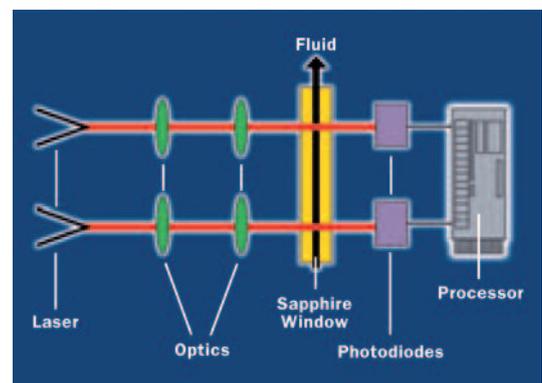
### Laser 1

A single point high accuracy laser measures particles of contamination at 4  $\mu\text{m(c)}$  and 6  $\mu\text{m(c)}$  giving increased accuracy with excellent repeatability.

### Laser 2

Standard accuracy laser specifically designed for system contaminants between 14  $\mu\text{m(c)}$  and 70  $\mu\text{m(c)}$ .

**LPA2 is supplied with a full software package**



### Technical data

<b>Technology</b>	Twin laser and twin optical diode detectors Based Light Extinction Automatic Optical Particle Analyser
<b>Particle Sizing</b>	>4,6,14,21,25,38,50,70 µm(c) to ISO 4406 1999 Standard
<b>Analysis range</b>	ISO 4406: 1999 Code 8 to 24, NAS 1638 Class 2 to 12, AS4059 Rev.E. Table 1 Size Codes 2-12 AS4059 rev E, Table 2 Size Codes, A:000 to 12, B:00 to 12, C:00 to 12, D:2 to 12, E: 4 to 12, F: 7 to 12
<b>Accuracy</b>	Better than 3% typical
<b>Calibration</b>	Each unit individually calibrated with ISO Medium Test Dust (MTD) based on ISO 11171, on equipment certified by I.F.T.S. To ISO 11943
<b>Viscosity range</b>	Up to 400 cst
<b>Fluid temperature</b>	From +5°C to +80°C
<b>Pressure Max</b>	400 bar (gauge) - minimum 2 bar (gauge) required -
<b>Sample Volume/Test time</b>	8 ml. (short): 2:50, 15 ml. (normal): 5:00, 30 ml. (dynamic): 10:00 24 ml. (bottle sampler): 8:00, 15 ml. (continuous): 5:00
<b>Moisture Sensing</b>	% RH (Relative Humidity) ±3%
<b>Temperature Measurement</b>	±3°C
<b>System Pressure Measurement</b>	+/- 0.5% Full Scale Accuracy Min 10bar
<b>Data Storage</b>	600 test
<b>Communication options</b>	RS232 9 pin D plug
<b>Ambient Temperature min/max</b>	-10°C to +80°C
<b>Environmental Protection</b>	IP51 (lid open)
<b>Weight /Dimensions</b>	9.8 kg, Height 210mm, Depth 260mm, Width 430mm
<b>Electrical Supply</b>	Voltage 9-36V DC
<b>Power</b>	Internal rechargeable battery (mains charger)
<b>Outer Casing Finish</b>	Anodised Aluminium

### Ordering information

**Example: LPA2** 1 2 3 4 5 6

**Example: LPA2** W P M S X 30

#### 1 - Moisture Sensor

- 0 Without moisture and temp sensor
- W With moisture and temp sensor

#### 2 - Pressure Sensor

- 0 Without on-screen inlet pressure display
- P With on-screen inlet pressure display

#### 3 - Fluid compatibility

- M Mineral oil
- N Subsea fluids and water based fluids<sup>(1)</sup>
- S Phosphate ester and aggressive fluids<sup>(1)</sup>

<sup>(1)</sup> **N** and **S** version, moisture sensor (W) not available

#### 4 - Accessories

- S Standard unit with carry bag
- T Standard unit with travel case

#### 5 - Bottle sampling options

- X Without bottle sampler

#### 6 - Design Ref.

30

Optional Products	
<b>Carry Bag</b>	CB0001
<b>In line Coarse Screen filter</b>	SK0040
<b>USB to serial port connector</b>	SK0026
<b>PC Download Cable</b>	6.123

The LPA2 Standard Analyser Includes accessories package: LPA-View software, hoses, waste bottle, printer paper.

### CMP

other Contamination Monitoring Products in our range



CML2



ICM



Atex ICM



ACMU



Bottle Samplers

Filtration, accessories and B.H. coupling products



Offline units

and more..

