Moisture / Temperature Sensor

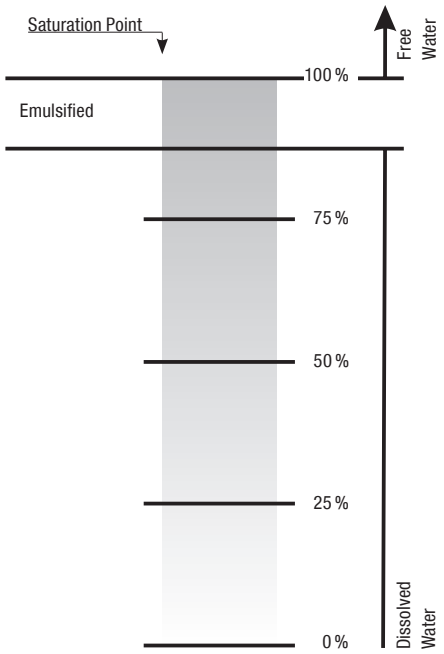
Saturation Levels
Since the effects of free (also emulsified) water are more harmful than those of dissolved water, water levels should remain always well below the saturation point.

However, even water in solution can cause damage, and therefore every reasonable effort should be made to keep saturation levels as low as possible.

There is no such thing as too little water.
As a guideline, we recommend maintaining saturation levels below 50 % in all equipment.

Different oils have different saturation levels, and % saturation is the best and most practical measurement.

These results can be converted to ppm (parts per million), if the oil type saturation / temperature characteristic is known.



Product Description

More Oil Analysis - Oil Saturation and Temperature
In Mineral Oils and non-aqueous fire resistant fluids, water is undesirable. Once the water exceeds a saturation level (about 500 ppm for Mineral Oils) the fluid starts to appear hazy. Above this level there is a danger of free water accumulating in the system. This can lead to corrosion and accelerated wear.

As an option, all LasPaC-II devices provide accurate and repeatable measurement of the saturation level of water in oil with the moisture / temperature sensor. The sensor is located internally in a specially designed housing and is positioned in the low pressure constant flow line.

Additional Information - Oil Temperature Readings
Beside the saturation level the optional moisture / temperature sensor of the LasPaC-II units has the ability to measure the fluid temperature. This allows to provide a reference temperature for the RH (relative humidity / % saturation of water in oil) readings.

Both results, RH % and °C, are displayed on the main / test progress screen and on the printed analysis.

Please note: Due to the temperature gradient existing between the system tapping point and the RH / temperature module, the temperature reading can be 5° to 10° less than the actual system temperature, depending on operating conditions. The moisture / temperature sensor is not suitable for bottle sampling.

Laser Particle Counter ▪ Accessories

Order Codes

Accessories / Spare Parts

①

① Type of Accessories / Spare Parts

Waste hose 2 m / 6.56 ft	**Hose-LasPaC-II-Waste-2m**
Pressure hose 1,5 m / 4.92 ft	**SMS-20-1500-A-W3**
110 ml certified clean bottle (5 pieces)	**Set-Bottle-LasPaC-II-110-C**
250 ml certified clean bottle (5 pieces)	**Set-Bottle-LasPaC-II-250-C**
110 ml glass sample bottle (5 pieces)	**Set-Bottle-LasPaC-II-110**
250 ml glass sample bottle (5 pieces)	**Set-Bottle-LasPaC-II-250**
500 ml glass sample bottle (5 pieces)	**Set-Bottle-LasPaC-II-500**
Printer paper LasPaC-II-P (5 pieces)	**Set-Paper-LasPaC-II-Printer**
RS 232 to USB converter	**Adaptor-PPC-04/12-RS232-to-USB-CAB**
Screen filter	**Screen-Filter-LasPaC-II**

Product Description: Screen Filter

An optional Screen Filter is available for heavily contaminated systems. The filter device is assembled directly to the supply line and allows particle counts in ambient conditions where normally the contamination is too high for a reliable test.

The Stainless Steel Filter has a mesh of 500 µm and is cleanable.