



## Early Warning

icount Lubrication and Hydraulic Oil  
Monitoring system

aerospace  
climate control  
electromechanical  
**filtration**  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding



ENGINEERING YOUR SUCCESS.

# You can trust icount accuracy

All-in-one particle detection system developed around the proven Parker icountPD particle detector.

Particle detection is accepted as the best way to determine whether or not system oil is contaminated and the best way to detect particles on line or off line is to utilize the icountPD. To make results even easier to obtain, we have added some extra equipment.

Parker's icount Lubrication and Hydraulic Oil Monitoring System is now available. It features Parker's laser technology and all

the necessary components for reliable monitoring up to 1000 cSt oil viscosities. The unit allows system monitoring and accurate particle detection from any available source.

A moisture sensor is available, as an option, allowing the measurement of the relative humidity of the oil. Viscosity measurement can be specified.

Several power versions for easy

installation and worldwide operation are available. The system is capable of data transmission in multiple forms and central control can collect information and easily manage, for example, large wind farms both off shore and on land.

A special design for wind turbine applications with pressurized connection is available. Correct oil pressure and steady flow ensure consistent measuring.



Special version for wind turbine applications.  
Several other options available.

The icountPD Particle Detector from Parker represents the most up to date laser based technology in particle detection. Standard in every icount Monitoring System.



icontainsPD

# Proactive maintenance with icount

With the icount System, the early bird stands every chance of catching the worm.

Be that early bird; schedule oil changes and plan service intervals with a predictive system maintenance programme. Parker's icount system provides early warning of any unwanted changes in hydraulic or lubrication oil quality. Thus increasing the availability of the machinery by reducing the need for unnecessary downtime.

Insurance companies are able to lower fees as the icount System warns of possible component failure. It also reduces the warranty costs thanks to an integrated pump unit that enables a cost effective solution to monitor oil from different points of a system.

icount SYSTEM		
	Standard	Options
Electric motor	230VAC	110VAC, 24 VDC
Pump	✓	
Flow control unit	✓	
Pressure control valve	DN65-PN16	for pressurized systems
Particle detector	icountPD	
Local display	led	none, digital, GSM
Communications	RS232	RS232/4-20mA, RS232/0-5V, RS232/Canbus
Moisture sensor		✓
Limit Relay		✓
Cable connector kit	M12 - 8 pin	
Short start module		✓
Mounting	bracket	sealed box

Parker's icount System housing can include several options to guarantee uniform sample handling and measuring any required aspect of oil quality.

## Wherever downtime costs dearly

Typical applications that can benefit most from Parker's icount System.

### Wind turbines

- Gear boxes
- Hydraulic systems in pitch, yaw and brake

### Shipping and shipbuilding industry

- Propulsion systems
- Thrusters
- Deck machinery

### Steel and pulp & paper industry

- Lubrication oil systems
- Hydraulic system control of presses and winders

### Power generation

- Lubrication oil systems
- Hydraulic system control for fuel feeding



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