

“Patrick” the particle counter

Do you want to significantly reduce machine downtimes due to failure or maintenance and schedule them in the most cost-effective manner possible?

That is where the “Patrick” particle counter comes in. This unit makes it possible to monitor contamination levels and fluid contamination trends with high precision, and changes in specific parameters can be used to draw conclusions regarding the need for maintenance and repairs. In other words, “Patrick” makes it possible to diagnose and monitor the oil quality in hydraulic systems.

The contamination class can be displayed in conformity with ISO4406:99 / SAE AS 4059 / NAS 1638 / GOST 17216.

- | Detect contamination in fluids
- | Minimize machine failures
- | Schedule downtimes in a cost-effective manner
- | Data transmission via CAN, USB (adapter), or RS-232



Patrick Optical particle counter	
Part No.	3160-00-76.00
Included:	
One Patrick	One quick start guide
Sensor principle	
Sensor principle	Light obscuration
Contamination classes	
Number	4
Type	ISO 4406:99 // SAE AS 4059 // NAS 1638 // GOST 17216
Measuring range (ISO 4406:99)	0 ... 24
Calibrated range (ISO 1171:2010)	10 ... 22
Measuring accuracy	±1
Fluids	
Type	Mineral oil (e.g., HLP) // Ester fluids (e.g., HEES) // Biodegradable fluids (e.g., HETG) // Diesel fuels
Temperature	-20 ... 85 °C
System conditions	
Flow rate	50 ... 400 ml/min
Static operating pressure	600 bar / 8700 psi
Dynamic operating pressure	420 bar / 6100 psi
Connection	
Fluid connection	Two MINIMESS® 1620 units
Interface	RS-232, CANOpen, J1939
Analog outputs	1
Analog output signals	4 ... 20 mA
Memory	
Data memory	3072 measurements
Display	
Display size	2.2"
Display type	Monochrome LCD display
Max. classes shown	4
General	
Degree of protection	IP65
Operating temperature	-20 ... 85 °C at 0 ... 95% rel. humidity