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MWDS - Metal Wear Debris Sensor

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[Part #](#) **FG-K19400-EX**



The Parker Metallic Wear Debris Sensor goes beyond the scope of normal wear debris sensors to offer even smaller size online resolution. With an unbeatable detection range, the sensor provides a debris count for both ferrous and non-ferrous metals.

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Technical Specifications

| | | | |
|----------------------------|--|----------------------------|----------------------------------|
| Flow Rate: | 0.3 to 4.5 ms-1 | Length: | 120 mm |
| Brand: | Parker | Height: | 80 mm |
| Division: | Hydraulic & Industrial Process Filtration Division EMEA | Width: | 60 mm |
| ATEX Specifications Met: | II 2 G, Ex mb IIB T5, Ta = -40 to + 65°C | Weight: | 2.2 kg, 3 kg |
| Industry: | Marine | Port Size: | 1/2 inch |
| Technology: | Filtration, Hydraulics | Port Type: | BSPP |
| Product Type: | Condition Monitor | Materials of Construction: | Cast Steel, Stainless Steel |
| Product Style: | Abrasive Wear | Body Material: | Magnetic Shielding, Robust Steel |
| For Fluid Type: | Water/Oil emulsions, Synthetic Oils, Petroleum | Specifications Met: | CE Certification |
| Operating Pressure: | 10 barg, 145 psi | Ingress Protection Rating: | IP66 |
| Operating Temperature: | -20 to 70 °C, -4 to 158 °F | Connection Size: | 3/8" BSP female |
| Minimum Fluid Temperature: | -20 °C, -4 °F | Seal Material: | Magnetic Shielding, Robust Steel |
| Sensing Method: | Ferrography | Electrical Requirements: | 18 to 30 VDC |
| Maximum Fluid Temperature: | 85 °C, 185 °F | Communication Interface: | Modbus |
| | | Signal Output: | LED display |
| | | Cycle Time: | 30 second |


[Safety Warning](#)

Item Information

It's no secret that particles result from wear. It is imperative to know, not just the number of particles which pass through your system, but also the size and metallic composition. The Parker Kittiwake Metallic Wear Debris Sensor goes beyond normal protection systems, allowing you to monitor in real time and take immediate action on the first indication of change, thereby preventing all types of failure.

The Kittiwake Metallic Wear Debris Sensor can be mounted within almost any lubrication system, on any type of machine. By using proven inductive coil technology, combined with smart algorithms to provide a particle size distribution count, the sensor measures ferrous and non-ferrous metals resulting from the wear debris within the lubricant. This puts the user in control. The severity of the problem increases with escalation in the production of larger wear debris particles.



 and analogue outputs, the sensor can be easily integrated into existing condition monitoring control systems, putting the user in control. Whether it's checking the health of the machine or alerting to changing wear patterns, the sensor provides instant information, complementing existing laboratory oil analysis programmes and helping the user make informed maintenance planning decisions.

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psc.uk.webform@support.parker.com
[+44 \(0\)1926 317878](tel:+44(0)1926317878)

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