Oil Condition Sensor

- Detect when an oil is no longer fit for service
- Internal processing power offers wide interface options
- Take action on the first indication of change
The Kittiwake Oil Condition Sensor goes beyond normal protection systems. It monitors the root cause of lubricant and machine failure, putting the user in control. Know exactly when to change the oil based on condition, not on historical schedules.

Today’s lubricants are better quality than ever before. Sticking to traditional oil change intervals is expensive. Whilst lubricants are performing better, they are still at risk from changing operating and environmental conditions. That’s why oil analysis services include an oil condition component. It helps detect when the oil may no longer be fit for service, possibly even pinpointing a contaminant or machine fault as the cause.

The Kittiwake Oil Condition Sensor goes beyond the normal hand-held field go / no-go units by offering permanent mounting for continuous monitoring. Providing a check on both water ingress and oxidation levels, monitor in real-time and take immediate action on the first indication of change, before any harm is done to the machine or the oil. The Kittiwake Oil Condition Sensor can be mounted within almost any lubrication system on any type of machine. The sensor detects changes caused by water and acid levels using a combination of proven dielectric sensing, combined with smart algorithms to provide a trend.

Whether it’s to check on the health of the lubricant or alert the user to changing contaminant ingestion, the Kittiwake Oil Condition Sensor provides instant information, complementing your existing laboratory oil analysis programme and helping you make informed maintenance planning decisions.

### Technical Specification

- **Ambient Temperature:** -20 to 70°C (-4 to 158°F)
- **Analogue Output:** 4 - 20 mA
- **Digital Output:** CAN, RS232
- **Connections:** 1/2” BSP male thread
- **Detection:** Oil condition (oil quality units)
- **Fluid Compatibility:** Petroleum and synthetic oils
- **Fluid Temperature:** -20 to 130°C (-4 to 266°F)
- **Max. Fluid Pressure:** 10 bar (145 psi)
- **Options:** Variable sensor head reach, power supply, stand alone display unit, cable termination options by special request
- **Power Supply:** 15 - 30 VDC
- **Protection:** IP67
- **Range:** 0 - 100 Oil Q Units
- **Repeatability:** 4 %
- **Weight:** 250 g (9 oz)

All sensors come complete with software for data downloading and trending. Contact Kittiwake for information about the wide range of installation accessories and alternative options that are available to suit your specific application.

### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FG-K16203-KW</td>
<td>Standard reach - Analogue output</td>
</tr>
<tr>
<td>FG-K14492-KW</td>
<td>Long reach - Analogue output</td>
</tr>
<tr>
<td>FG-K16330-KW</td>
<td>Standard reach - Analogue &amp; digital output</td>
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<tr>
<td>FG-K16340-KW</td>
<td>Long reach - Analogue and digital output</td>
</tr>
<tr>
<td>FG-K16318-KW</td>
<td>Evaluation pack standard reach, dual outputs, includes case, power supply and display</td>
</tr>
<tr>
<td>FG-K16327-KW</td>
<td>Evaluation pack long reach, dual outputs, includes case, power supply and display</td>
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</tbody>
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### Typical Applications
- Wind Turbines
- Generator Sets
- Industrial Applications