

Acoustic Bearing Checker– Machinery Health Check (MHC)

Part # FG-H11510-KH



Parker MHC Bearing Checker is an innovative hand-held device that provides engineers with the capability to quickly and analyse bearing condition and lubrication state. Allows for measurements of impact and distress.

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Technical Specifications

Minimum Fluid Temperature:	0 °C, 32 °F	Sensing Method:	Acoustic Emission
Maximum Fluid Temperature:	50 °C, 122 °F	Electrical Requirements:	Rechargeable NiMH battery
Operating Temperature:	0 to 50 °C, 32 to 122 °F	Signal Output:	dB level
Brand:	Kittiwake	Cycle Time:	10 second
Division:	Hydraulic & Industrial Process Filtration Division EMEA	Specifications Met:	CE Certification
Industry:	Industrial Manufacturing Equipment	Materials of Construction:	Aluminium
Technology:	Hydraulics, Filtration	Weight:	225 g, 0.5 lb
Product Type:	Condition Monitor	Height:	62 mm
Product Style:	Acoustic Emission Sensor	Length:	98 mm
		Width:	34 mm
		Package Type:	Leather Bag

[Safety Warning](#)

Item Information

Bearing damage caused by lack of lubricity can be a significant contributor to breakdowns and reduced performance in rotating equipment and machinery. Conducting periodic bearing checks can help engineers detect potential issues, resulting in less downtime, fewer repairs, and reduced operating costs.

The MHC Bearing Checker from Parker Kittiwake is an easy-to-use hand-held condition monitoring instrument that gives maintenance engineers the capability to quickly and easily analyze and determine rates of change in bearing condition and lubrication state. The device monitors high frequency Acoustic Emissions (AE) signals naturally generated by deterioration in rotating machinery. The unique way of detecting and processing these signals provides condition-related information in the easiest possible form.

As the mechanical condition of machinery deteriorates, energy loss processes such as impacts, friction, and crushing generate sound wave activity that spans a broad range of frequencies. By detecting only the high frequency part of this signal with special AE sensors, it is possible to detect miniscule amounts of activity (e.g. a slight rub, a brief impact, or the crushing of a single particle in the lubricant). The patented MHC sensor gives improved repeatability and is remarkably rugged. A magnetic front face allows for easy attachment to multiple machines.

The bearing checker is operated by simply attaching the unit via the magnetic sensor head. Within 10 seconds, both dB Level and Distress® values will be displayed. dB Level is an indication of the overall noise of the bearing and is dependent on speed. It increases with speed of rotation, but also with degradation of the bearing or inadequate lubrication. Distress® gives an instantaneous indication of the state of the bearing's health. A

10 generally indicates normal operation. Higher than 10 is typically indicative of bearing damage or the need for attention.



The unit is powered by an internal rechargeable battery, offering up to 1000 measurements between charges. Recharging is accomplished through a micro USB port.

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For additional information, consult the MHC Bearing Checker documentation in the "Product Support" tab.

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Benefits:

- Provides maintenance personnel with the capability to quickly, easily, and cost effectively determine bearing condition and lubrication state in rotating machinery.
- Conducting periodic bearing checks enables early detection of potential issues, resulting in less downtime, fewer repairs, and reduced operating costs
- Compact, hand-held design provides ease-of-use in the field

Features:

- Last measurement recall
- Simple one-handed operation
- Rechargeable through USB port
- Up to 1000 measurements between charges
- Factory set calibration
- Sensing element: resonant piezoelectric at 100 kHz
- Dimensions: 98mm x 62mm x 34mm (3.86in x 2.44in x 1.34in)
- Weight: 225 grams (7.94 ounces)

CAD Drawings + Files



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