

AT LAST-CM THAT'S STAGGERINGLY SIMPLE, INCREDIBLY
VERSATILE & AMAZINGLY SENSITIVE

If you need information on the condition of rotating machines and you need it now, you'll love the MHC - Classic. Its unique principle of operation lets you instantly check machinery, even if you have no previous measurements and no detailed information on speed, shaft

diameter even bearing type! As a result the MHC - Classic makes the ideal general purpose Condition Monitoring instrument for the busy Maintenance Engineer who cannot afford the luxury of carrying out periodic measurements around a systematic route.

Despite its simplicity and low cost there are no compromises in its performance, versatility or ruggedness. With the MHC - Classic you'll be picking up a wide range of problems (typically months before final failure) on virtually all rotating machines, for years to come.

Highly sensitive to faults

- poor lubrication & rubbing
- race/ball/roller defects
- grease/oil contamination
- gear teeth pitting, etc..
- even down to 45 rpm!

Monitor most rotating machinery

- motor-pump sets
- gearbox & pulley drive systems
- roll and shaft support bearings
- machine tools, etc..
- even works on plain bearings!

How it works

The MHC - Classic characterises the detected signal in terms of Distress and dB Level. Distress is a proprietary parameter which performs a summation of all the microscopic clicks, crunches, whistles and groans associated with faults. In this way Distress provides a means of instantly recognising suspect machinery at a very early stage. By contrast dB Level is a measure of the overall signal level and is used to trend the rate of degradation of suspect machinery. In fact the MHC - Classic works on the same basic principles that have been well proven over the years in the original MHC - Machine Health Checker.



MHC-Classic
The Instant Machine Health Checker



HOLROYD
INSTRUMENTS



Technical Specification



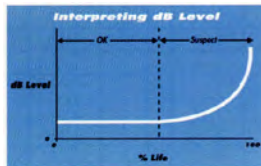
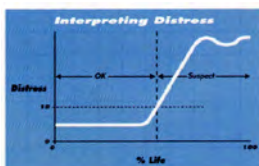
Sensor:	
Sensing Element	Resonant Piezoelectric at ~ 100kHz
Integral pre-amplifier	+24dB gain
Power requirement	+ 10VDC at < 5mA (provided by MHC-Memo)
Calibration	Factory set to within 1dB of standard value

Signal Measurement:	
a)	Distress Characterisation
Description	Fault indicating parameter
Range	0 to > 40 (typical)
Resolution	1 unit
b)	dB Level Characterisation
Description	Logarithmic scaled mean signal level
Range	0 to 92dB (ie 40,000:1)
Resolution	1dB

General Characteristic:	
Battery Operation	2 qty. 9V PP3 (or equivalent) batteries
Lithium Mn	Up to 80 hours
Alkaline	Up to 34 hours
NiCd/NiMH	Up to 8 Hours
(Note use of display backlight and headphones reduces these values)	
Display	LCD, 2 lines by 16 characters (with LED Backlighting)
Hold & Compare	Yes (shows last 4 values for comparison of Distress and dB Levels)
Problem Alert	Yes (Auto recognition of high Distress)
Coupling Alert	Yes (Displays LOW if dB level < dB)
Auto Shut-Off	Yes (LED backlight after 8 seconds, main unit after 5 mins unused)
Audio Output Socket	Yes (switched high/low volume range)
Operating Temperature	Main instrument 0 - 50°C Sensor 0 - 70°C
Dimension	115mm x 220mm x 52mm (main unit)
Weight	~ 750g (main unit including batteries & rubber housing)

QUALITY BUILT ON SOUND TECHNOLOGY

Simply the best



Nothing works like the MHC-Classic (except its data logging big brother, the MHC - Memo) It incorporates thick film hybrid and microprocessor circuitry to achieve exceptional performance and functionality combined with outstanding reliability and stability.

Unique and patented features in the design of the MHC-Memo system, such as the Distress parameter, the Ultraspam™ signal processing and the highly reproducible sensor design, set a new benchmark for industrial AE systems and are crucial elements in its powerful capability.

