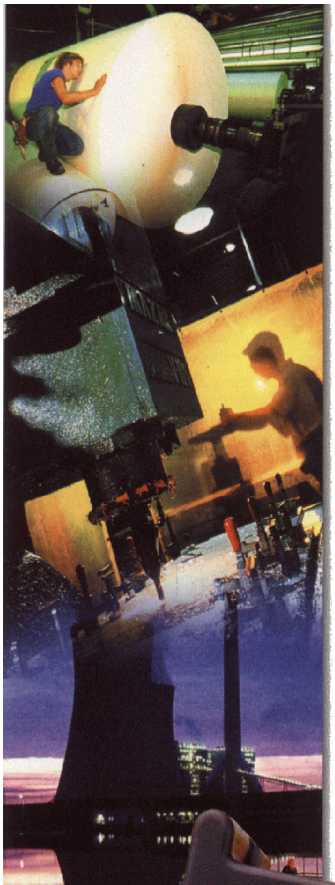

AT LAST-CM THAT'S STAGGERINGLY SIMPLE, INCREDIBLY VERSATILE & AMAZINGLY SENSITIVE

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	Monitor most rotating machinery
■ poor lubrication & rubbing	■ motor-pump sets
■ race/ball/roller defects	■ gearbox & pulley drive systems
■ grease/oil contamination	■ roll and shaft support bearings
■ gear teeth pitting, etc..	■ machine tools, etc..
■ even down to 45 rpm!	■ 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

HOLROYD INSTRUMENTS

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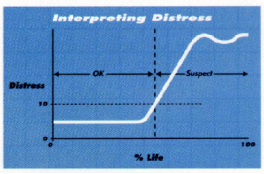
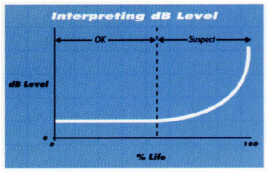
Simply the best





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-Memc system, such as the Distress parameter, the Ultraspan™ signal processing and the highly reproducible sensor design, set a new benchmark for industrial AE systems and are crucial elements in its powerful capability.