product focus

HOLROYD INSTRUMENTS

MHC-*Classic Plus*™

the instant & versatile machine health checker

Quick and Easy to use

Unparalleled detection capability

Applicable to most rotating machines

Field proven platform

OK down to 0.25 RPM

32 point non volatile memory

Listen to the nature of the fault

Upgradeable to Memo Lite or Memo Pro

condition monitoring just got easier

If you need information on the condition of rotating machinery and you need it now, the *MHC-Classic Plus* is for you. With its Standard and Super Slo modes of measurement, it's a breeze to monitor down to rotational speeds as low as 0.25 rpm (that's 4 minutes per revolution !). What's more, you don't need to know design details like bearing type, size or number. From day one the *MHC-Classic Plus* gives you crucial information for implementing proactive, rather than reactive, maintenance; even on machinery you have never monitored before. Importantly sensor placement is easy, it's not essential to be in the plane of the bearing or at any specific orientation, as it is with so many other techniques.

Make no mistake, the outstanding speed and ease of use of the *MHC-Classic Plus* are not gained by compromises in performance or sensitivity to developing faults. In fact, our unique, patented and well established MHC technology has gained an enviable reputation across all industrial sectors. With thousands of MHC instruments in use around the world you'll not be alone.

Standard Mode

Standard mode is OK down to 35 rpm. Simply couple the magnetic sensor to the machine and in just 15 seconds you'll get an instant and easily interpreted first indication of condition from the Distress® reading. You can also compare dB Level readings with those on similar machines.

Super Slo Mode

Super Slo mode is OK down to 0.25 rpm. First measure the number of seconds it takes for one revolution at the point of measurement. Then couple the magnetic sensor to the machine and in just 9 revolutions you'll get an instant and easily interpreted first indication of condition from the Extent® reading. You can also compare dB Level, Peak and Intensity readings with those on similar machines.

Memory

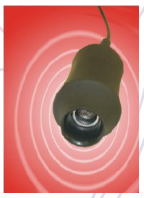
You can save up to 32 sets of measurements in the non-volatile memory of the *MHC-Classic Plus*. This is ideal for comparing readings on similar machines or keeping a track of developments on a machine of current concern.

Headphones (with built-in ear defence)

Irrespective of whether you are in Standard or Super Slo mode you can listen to the nature of the signals in the headphones. Because the *MHC-Classic Plus* filters out normal vibrations and audible sounds, the headphones let you clearly hear rubs and impacts as they happen.

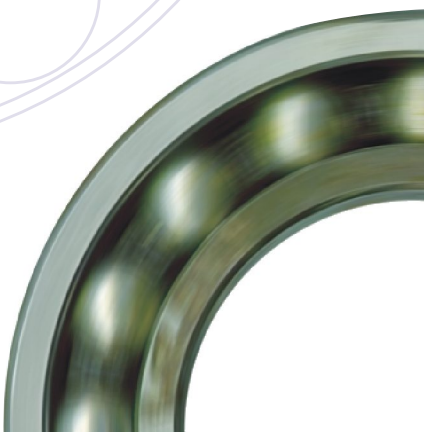
Find leaks fast and save energy & money! Simply plug the airborne sensor (optional accessory) into the instruments and listen on the headphones - you now have a sensitive leak detector for compressed air. Be surprised how quickly and easily you'll find leaks that you never knew were there.

see a video demonstration at
www.holroyd-instruments.com/video.html



ideal for
bearings - mixers - motors
pumps - fans - RBC's
HVAC - helical gears
variable speed machines
etc...

Don't leave it to chance,
put some science
into keeping your site running !



Standard Mode

Standard mode is a powerful way of processing the minor clicks and crunches associated with the earliest stages of mechanical deterioration in machinery rotating down to ~ 35 rpm. Distress® and dB Level values take just 15 seconds and there's no need to enter any information about the machine (such as bearing type, size or number) or even shaft speed.

Usual interpretation :

Distress®	Interpretation
0-5	very good condition
5-10	satisfactory condition
10+	suspect condition

Distress® is so sensitive it will even detect inadequate lubrication giving you the opportunity to remedy the problem before any permanent damage has occurred.

Super Slo Mode

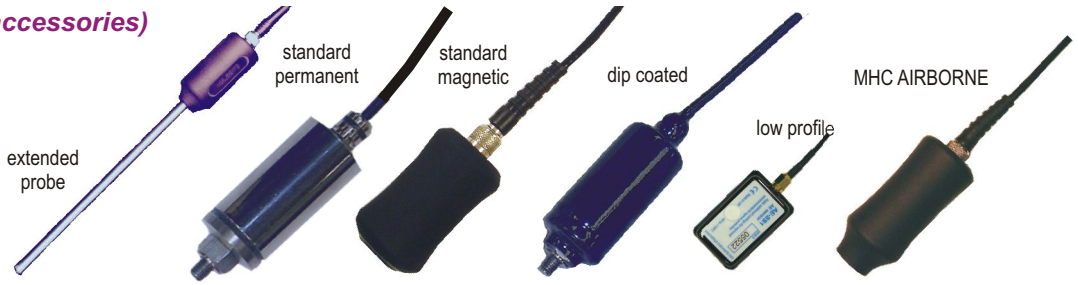
Super Slo mode makes quick work of sensitively monitoring machinery rotating as slowly as 0.25 rpm (4 minutes per rev !). The only information needed is the number of seconds per revolution and the patented Super Slo method does the rest.

In just 9 revolutions you'll get the dB Level, Peak, Intensity and Extent® signal characterisations. Each of these has its role to play but for spreading damage (the most usual form of deterioration) it's the Extent® reading that is the most powerful.

Usual interpretation :

Extent®	Interpretation
0-5	very good condition
5-10	satisfactory condition
10+	suspect condition

● *Sensor variants*
(optional accessories)



Junction boxes and terminations also available

specifications

MHC-*Classic Plus* kit

Includes	Instrument Standard magnetic sensor Carry case "Ear defender" headphones 25 monitoring pads 2 sets of rechargeable NiMH 230V UK battery charger Cables

Instrument

Measurements	Standard : Distess, dB Level. Super Slo : Peak, Intensity, Extent, dB Level.
Data storage	32 measurements
Display	2 x 16 backlit LCD alphanumeric
Keypad	Sealed membrane
Power save	After 8 mins
Audio out	Hi/Lo ranges
Op. Temp	0 - 50 deg C
Battery type	2 x PP3 / MN1604 (9v or equivalent)
Battery life	8hrs (NiCd/NiMH)
(backlight off)	34hrs (alkaline)
	80hrs (LiMn)
Size	115(w) x 220(h) x 52(d)mm
Weight	800g (approx)
Protection	Rubber surround

Standard Magnetic Sensor
(other variants available - just ask)

Sensing element	Piezoelectric resonant @ ~100kHz
Attachment	Magnetic front face
Size	60(l) x 32(O/D)mm
Weight	250g (inc cable)
Cable	1m TNC, 50 ohm coax
Op temp	0 - 70 deg C