

# MHC-Memo Lite™

*the simplified data collecting machine health checker*



**condition monitoring just got easier**



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

**Quick and Easy to use**

**Unparalleled detection capability**

**Applicable to most rotating machines**

**Field proven platform**

**Compare current & previous reading**

**300 named point memory list**

**PC software → full list & trend points**

**Export to spreadsheet or notepad**

The *MHC-Memo Lite* offers a simple way of reaping the benefits of trending to reveal the rate of change and help you prioritise and plan maintenance actions. It is especially suited to intermediate sized applications where it's important to (a) keep records of the condition of hundreds of machines but (b) remove the burden of getting to grips with a complex PC software program. 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. What's more, you don't need to know design details like bearing type, size or number. The *MHC-Memo Lite* packs a heavyweight punch in terms of performance and sensitivity to developing faults.

## 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 the Distress® and dB Level readings which can be either viewed in 'live mode' or stored alongside your unique measurement point name (16 chars.).

## Super Slo Mode

Super Slo mode is OK down to 0.25 rpm. First time round you'll need to 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 the dB Level, Peak, Intensity and Extent® readings. These can be either viewed in 'live mode' or stored alongside your unique 16 character name for that measurement point.

## Data Collecting

You can save in non-volatile memory the readings for up to 300 named measurement points in either Standard or Super Slo modes. Then download them into your PC to keep a permanent record, see developing trends, export to your third party spreadsheet etc..

## 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-Memo Lite* 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](http://www.holroyd-instruments.com/video.html)



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

● With Memo Lite - Vu you're just a click away from the information you need !

Establish link to MHC-Memo Lite

Download route & data from MHC-Memo Lite

Upload route to MHC-Memo Lite

View trend data in Notepad, Excel or Works spreadsheet formats

Select COM port

PC file storage

Add/Delete/Edit & Insert points into the route

Point	Point Name	Status	Distress	dB level	Peak	Intensity	Extent	Time per rev
1	Motor1 NDE	"New STD Mode"	2	14				
2	Motor1 DE	"New STD Mode"	2	23				
3	Pump1 NDE	"New STD Mode"	2	9				
4	Pump1 DE	"New STD Mode"	12	12				
5	Fan DE	"New STD Mode"	22	19				
6	Fan1 NDE	"New STD Mode"	3	10				
7	Mixer1 DE	"New SLD Mode"	1	5	6	9	4	
8	Mixer1 NDE	"New SLD Mode"	0	5	8	10	4	
9	Gearbox DE	"New SLD Mode"	0	12	5	12	10	
10	Gearbox NDE	"New SLD Mode"	1	13	7	20	10	

Point number

Name of points on route

Measurement mode

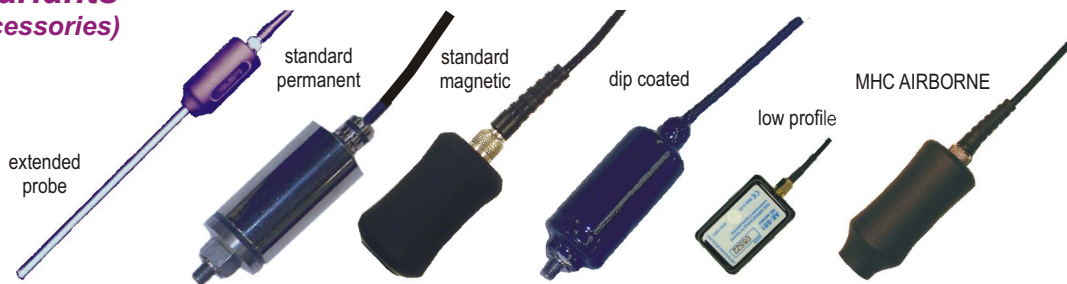
Measured values

A one-off task is to name each of the measurement points and select either Standard or Super Slo mode in non-volatile memory (up to 16 characters).

This can be done either directly in the instrument or via the supplied Memo Lite-Vu PC Windows software. Readings can be downloaded to the PC and viewed as a full list or the historical download data can be selected for each measurement point.

These values can be simply exported to your spreadsheet or notepad. Its even possible not to use a PC at all - just re-take readings as often as you wish and compare current values with the previously stored ones.

● **Sensor variants**  
(optional accessories)



Junction boxes and terminations also available

**MHC-Memo Lite 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 : Distress, dB Level.
  - Super Slo : Peak, Intensity, Extent, dB Level.
- Points list
- 300 points (non volatile)
- Display
- 2 x 16 backlit LCD alphanumeric
- Keypad
- Sealed membrane
- Power save
- After 8 mins
- Audio out
- Hi/Lo ranges
- Comms
- USB supplied with data cable
- Op. Temp
- 0 - 50 deg C
- Battery type
- 2 x PP3 / MN1604 (9v or equivalent)
- Battery life (backlight off)
- 8hrs (NiCd/NiMH)
  - 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



specifications