

# CMT Vibration Meter

**The collection and analysis of intelligent data to monitor the condition of critical machinery has become a vital element of consistent productivity and key to maximizing revenue generation. In the shipping industry classification societies have recognized that an effective Condition Based Maintenance regime using instruments that are giving reliable and trustworthy information improves availability and reliability of critical ship machinery and therefore improve cost and revenue benefits.**

Condition monitoring is the process of monitoring a parameter of condition in order to identify a significant change which is indicative of a developing fault. It is a major component of predictive maintenance. The use of conditional monitoring allows maintenance to be scheduled, or other actions to be taken to prevent failure and avoid its consequences. Condition monitoring has a unique benefit in that conditions that would shorten normal lifespan can be addressed before they develop into a major failure.

One of the most commonly used methods is called vibration analysis.

Vibrations can be the first indication of an impending failure and supply reliable information about the machineries health.

Starting a Condition Based Maintenance program may look like a herculean task but by using smart and easy to use available modern technology the time was never better to start. Apart from implementing CBM as part of ISO or ASTM procedures or classification societies guidelines it will help you to keep your machines running and avoid costs.



It is a complete machine condition monitoring system that provides results without the use of a computer.

It is designed for the technician, engineer and consultant who need to analyse a rotating machine on-site without investing and carrying expensive instruments to site. Using the CMT Vibration Meter cannot be easier!

Both experts and novices can use the device immediately. For the latter the FASIT-Mode (fault source identification tools) has been introduced for simple and rapid damage analysis. It gives an immediate analysis of the problem according to the "traffic light" principle.

Your benefits:

- Modern state of art instrument providing automated analysis instead of raw data
- Low purchasing costs
- Easy to use, no prior knowledge or training necessary
- Chances of detecting machinery failure increase dramatically
- Single device which is able to provide multiparameter information

## Ordering Information

VIB-CT-50001

**CMT Vibration Meter**

VIB-CT-50005

**Acceleration Sensor 100 mV/g**

VIB-CT-50011

**Standard Measuring Pad with Plastic Cover a 10 pcs.**

VIB-CT-50018

**Epoxy Metal Glue for Measuring Pads**

VIB-CT-50017

**PELTOR Heavy Duty Headphone**

## Specification Vibration Meter

Input	1 x ICP (100 mV/g)
Display	128 x 128 pixel
Output	1 x headphones
Velocity	10 - 1000 Hz
Acceleration	500 - 16 000 Hz
Displacement	1 - 1000 Hz
Velocity Spectrum	0 - 200 Hz
Stroboscope	10 - 18000 rpm
Temperature	-5 to 50 °C
Dimensions	150 x 60 x 35 mm

Statistics show that insufficient bearing lubrication is the most common cause for most bearing damages. Using the CMT Vibration Meter to find insufficient lubrication is fast and simple. A single measurement of only a few seconds gives information about the lubrication of the bearing. Avoid bearing damage and unnecessary costs without much effort.

The Vibration Meter is a multi-function portable meter that bridges the gap between the basic Vibration pens and advanced FFT data collector / analyser.

Modern vibration instruments like CMTs VibrationMeter are using state-of-the-art technologies to provide the vast majority of data analysis automatically and provide information instead of raw data like their predecessors.

