



WHEN FAILURE ISN'T AN OPTION,
DON'T LEAVE ASSET HEALTH TO CHANCE!





ABOUT CMT

CMTs mission is to supply our customers with on-line and on-site condition monitoring solutions fitting their needs. Our range of products helps the onsite engineers to base their maintenance and repairs on solid information rather than guesswork.

CM Technologies, formerly known as Kittiwake GmbH help prevent unplanned breakdown and maximise plant availability. There are various different on-the-run tools available for condition monitoring.

This brochure contains only information about CM Technologies offer for vibration diagnostics. For other products please see our full product catalogue.





Customer in over 70 countries rely on CMT products









WHAT IS VIBRATION DIAGNOSTICS?

Vibration diagnostics is a major part of predictive machine maintenance programs. Vibration diagnostics has over the years proven to be the most effective method for checking "machinery health".

Vibration diagnostics tools are here to help us to predict the machine failures. When predictive maintenance is applied and the machines are checked regularly, machine faults can be discovered at an early stage and appropriate action can be taken. By doing so you can avoid unexpected machine shutdowns and you can prevent replacement of parts which are still in good condition.

CMT supplies a full range of vibration diagnostics equipment, from simple data collectors to advanced vibration analyzers and on-line monitoring systems. The data from the devices can be transferred to Adash software for further analysis.

HOW DOES IT WORK?

Running machines generate vibrations, which contain a lot of information about their condition. A vibration meter or analyzer is used to measure this vibration. The sensor needs to be mounted on an appropriate point on the machine (e.g. bearing housing). The instrument measures the vibration signal, tells you the severity of the vibrations and also possible machine faults. The most frequent faults are bearings faults, unbalance, misalignment and looseness.



WITH OUR DEVICES YOU CAN ... determine the condition of the machine according to ISO standards find machine mechanical faults determine the condition of roller bearings control the lubrication of bearings perform balancing evaluate operating deflection shapes with the stroboscope to check rotating parts



VIBRATION METER MARINE

VIBRATION METER SPECIFICALLY FOR MARINE APPLICATIONS

Crews of seagoing vessels are under constant stress and the crew changes in fixed intervals. Therefore to successfully use Vibration Monitoring on board it must be easily understandable by everyone. The Vibration Meter Marine offers measuring modes put together exclusively for the Marine industry.

A powerful Expert system provides on the spot useable results, even beginners can use these results right away without any training or knowledge about vibration analysis.

A lubrication mode allows monitoring and control of of grease lubricated machinery. This ensures proper lubrication and on the other hand spares costs and avoids damages due to over-lubrication.

Acceleration and velocity RMS values can be taken and stored and allow users a precise trending of the condition of a machine.

The device offers additionally an integrated IR temperature probe, a stroboscope and flash light which are valuable tools for the day to day work.

The powerful data diagnostic software (PLUS Version only) allows planning and uploading measurement routes as well as further in-depth analysis of the vibration data. Measurement routes allow every member of the crew to easily take out vibration measurements on ship machinery.

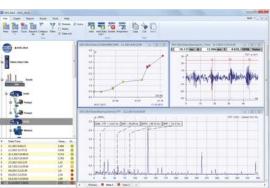
With the purchase of the Vibration Meter Marine you get everything you need to start right away. Scope of delivery includes the device, acceleration sensor, software (PLUS Version only) and accessories all in a small rugged case for storage in between usage.

Optional high quality headphones are available for the acoustic evaluation of the bearings. Using the headphones an experienced user is able to spot problems in seconds.



Free version of DDS software (limited database size)
(PLUS Version only)





Ordering Information

VIB-CT-50035

CMT Vibration Meter Marine

(including one acceleration sensor)

VIB-CT-50030

CMT Vibration Meter Marine PLUS

with Memory and PC software (including one acceleration sensor)

VIB-CT-50017

PELTOR Heavy Duty Headphone

Signal: 8 Ohm / 0.5 W

VIB-CT-50075

Transport Case for VibrationMeter



- > Tailor made for the Marine industry
- > Easy to understand and use
- > Quick diagnosis with traffic light system
- > Optional route measurements



VIBRATION METER

VIBRATION METER, ANALYZER, DATA COLLECTOR





The Vibration Meter instrument allows you to perform all basic vibro-diagnostics measurements such as bearing condition, identification of mechanical faults and lubrication assessment.

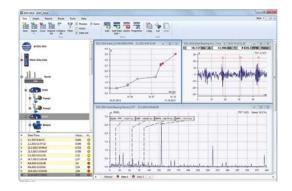
The Vibration Meter PLUS is equipped with 4MB of memory for data storage. Data memory allows you to perform off-route and route measurements. The professional software DDS for Vibration Meter PLUS can be downloaded from the website free of charge.

Our expert system for automatic machine fault detection is included.

We also offer the Vibration Meter Ex, an intrinsically safe version of the Vibration Meter.



Free version of DDS software (limited database size) (PLUS Version only)





- > Quality sensor
- > Solid coiled cable
- > Strong magnetic base



Ex certification:

> II 2 G Ex ib IIC T4 Gb

Ш	Non-mining
2	Zone 1
G	Gas atmosphere
Ex ib	Principle of protection: Intrinsic Safety EN 60079-11 , Zone 1
IIC	Gas group - Acetylene, Hydrogen
T4	Temperature class 135°C
Gb	Equipment Protection Level – Zone 1 (high protection)



EXPERT SYSTEM

> Enables automatic machine fault detection on site







Misalignment



Bearing fault

Ordering Information

VIB-CT-50001

CMT Vibration Meter

(including one acceleration sensor)

VIB-CT-50022

CMT Vibration Meter PLUS

with Memory and PC software (including one acceleration sensor)

VIB-CT-50031

CMT Vibration Meter Ex

with Memory and PC software (including one acceleration sensor)

VIB-CT-50017

PELTOR Heavy Duty Headphone

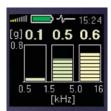
8 Ohm / 0.5 W

MEASUREMENTS

- > ISO value [mm/s, ips]
- > Bearing value [g]
- > ISO 10816-3 included
- > Automatic speed detection







Frequency bands



FFT Spectrum



Route measurement



- > Three button operation
- > All functions are predefined
- > Expert functions for fault detection
- > Colour graphic display



TOP PANEL

- > ACC ICP® sensor input
- > IR non-contact temperature sensor
- > LED stroboscope
- > Stethoscope output
- > Micro USB for data transfer



- > Heavy-Duty aluminium housing
- > 2AA rechargeable or AA alkaline batteries
- > 8 hours of operation



GREASE METER

OPTIMIZING THE LUBRICATION **PROCESS**



Free version of DDS software (limited database size) (depending on version)



- > Increase bearing lifetime
- > Basic vibrodiagnostics measurements

Values in traffic light colours tell you when to add the grease



Lubrication OK



Add grease



Dry bearing

The Grease Meter is a maintenance tool used for monitoring and control of the lubrication process. The A4910 Lubri measures the actual bearing lubrication status and informs the operator when the lubrication state is optimal.

Application of the Grease Meter extends the bearing lifetime and saves lubricants. Headphones can be connected to listen to the bearing condition. The Grease Meter is simple to operate and also enables you to perform basic measurements and diagnoses of bearing condition.

Now the Grease Meter can store the data and perform route measurements as well (depending on verison).

Ordering Information

VIB-CT-50023

Grease Meter

(including one acceleration sensor and grease gun)

VIB-CT-50024

Standard Grease Gun

VIB-CT-50017

PELTOR Heavy Duty Headphone

8 Ohm / 0.5 W Signal:



- > Monitoring and control of the lubrication process
- > Bearing condition state



VIBRATION ANALYSER VA3PRO



The Vibration Analyser VA3Pro is the newest addition to our range of portable devices for vibration diagnostics.

There are 2 signal inputs and 1 tacho/trigger input. Input 2 offers connectivity to a triaxial sensor, therefore all 3 channels can be measured simultaneously. The expert system developed by Adash can automatically detect machine faults such as unbalance, looseness, misalignment and bearing faults.

There is a non-contact IR temperature sensor (for immediate bearing temperature measurement) and a LED stroboscope/torch. The Vibration Analyser VA3Pro is designed for one-handed operation. With a weight of just 780g and a battery life of more than 10 hours of operation, the unit is suitable for long route measurements.

The Vibration Analyser VA3Pro can be configured according to your requirements by choosing optional modules e.g. analyzer, route, balancer. Optional modules can be purchased also additionally and downloaded to the instrument without the need of sending it back to the factory.



- > Low weight 780 g
- > Long lasting battery
- > Ideal for route measurement
- > Route compatibility with Vibration Analyzer



> Includes stroboscope and torch



Meter



Expert system



Stroboscope



Route (Option)



(Option)



(Option)



Recorder (Option)



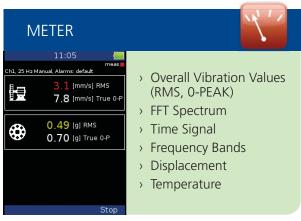
(Option)

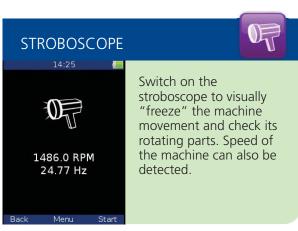


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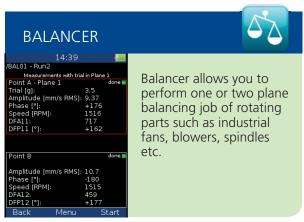


A4300 VA3PRO MEASUREMENTS MODULES

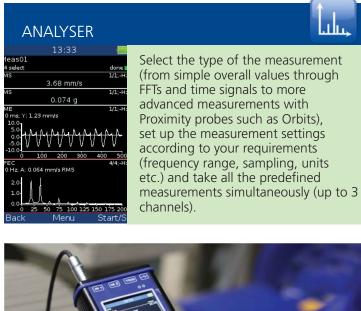
















- > Real time FFT
- > DEMOD ENVELOPE analysis
- > ACMT low speed bearing analysis
- > Order analysis
- > User band pass analysis
- > RPM measurement
- > DC measurement
- > Orbit measurement



- > 24 Bit A/D conversion
- > 64 Bit signal processing
- > 120 dB dynamic range
- > No Auto-Gain



- > Heavy-Duty aluminium housing
- > Removable battery pack
- > More than 10 hours of operation
- > Colour display 240 x 320 px
- > FFT resolution: 25600 lines
- > Route memory: 8GB



TOP PANEL

- → ACC ICP® sensor input
- > 2 signal inputs AC/DC (IN1,IN2)
- > Input IN2 is ready for triaxial sensor
- > Input for tacho/trigger
- > IR non-contact temperature sensor
- > LED stroboscope/torch
- > Mini USB for data transfer



ACCESSORIES

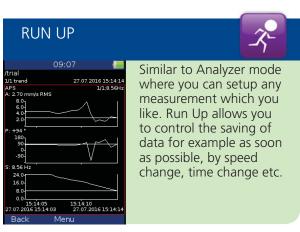
- > Accessories can be selected under your requirements
- > Silicone protection cover protects the device
- > Hard-shell transport case

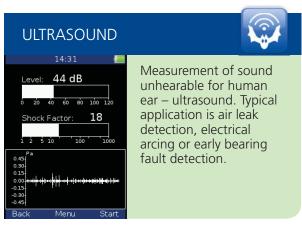




Route P1 /Plant1/Unit1/Pump1 /Plant1/Unit1/Pump2 /Plant1/Unit3/Fan2 Plant1/Unit4/Pump1 Plant1/Unit4/Pump2 Plant1/Unit4/Pump2 Plant1/Unit4/Pump2 Plant1/Unit6/Fan2 Plant1/Unit6/Fan2 Plant1/Unit6/Fan1 Plant1/Unit6/Fan2 Back Menu Ok Route module is used for day to day data collection of your factory machinery. Simply create your route tree and take the measurements regularly.









VIBRATION ANALYSER VA5PRO

THE FASTEST 4-CHANNEL VIBRATION ANALYZER





- Adash expert system for automatic machine fault detection
- > Large colour display



4 channel signal recording

Ordering Information

VIB-CT-50065

Vibration Analyser VA5Pro

(Including one acceleration sensor and a case)

VIB-CT-50006

Laser Tacho Probe

VIB-CT-50038

US-Microphone

VIB-CT-50066

Transport Case for VA5

VIB-CT-50017

PELTOR Heavy Duty Headphone

VIB-CT-50067

Thermal Imaging Camera

Range: $-10^{\circ}\text{C} \sim 150^{\circ}\text{C}$

VIB-CT-50047

Acceleration Sensor Complete push /pull

(including spiral cable and magnet base)

Sensitivity 100 mV/g Resonance Freq. 30 kHz The Vibration Analyser VA5Pro is a unique instrument for machinery vibration diagnostics. The Vibration Analyser VA5Pro includes modules for analysing, data collecting and vibration signal recording. The instrument is enhanced by modules for dynamic balancing, measurement of run up and coast down, acoustic measurement mode, monitoring and control of lubrication process and listening to the vibration signal with the stethoscope feature. The instrument is equipped with an expert system which automatically detects machinery faults.

The Vibration Analyser VA5Pro is designed for engineers, technicians and researchers dealing with machinery and structural diagnostics as well as dynamic balancing of rotating machinery.





- > Automatic machine fault detection
- > ISO 10816-3 included
- > Bearing database included



DATA PROCESSING

- > FFT 3 276 800 lines in real time
- > Frequency range up to 90 kHz
- > 20 hours recording of 4 channels
- Demodulation envelope analysis, Order analysis
- > ACMT low speed bearing analysis
- > User defined frequency bands



TOP PANEL

INPUT CHANNELS

- > 4 AC, ICP®(On/Off), +/- 12 V pp
- > 4 DC process values, +/- 24 V
- > 1 Tacho

A/D CONVERSION

- > 24 Bit A/D conversion
- > 64 Bit signal processing
- > 120 dB dynamic range
- > No Auto-Gain

USB PORT

- High speed data transfer
- > Quick connection

HEADPHONES

Listening to vibration signal



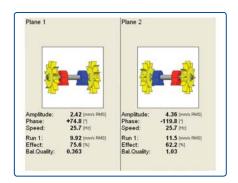


VIBRATION ANALYSER VA5PRO MEASUREMENT MODES



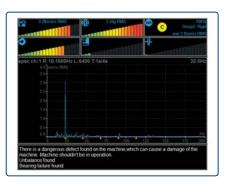
ANALYZER

> 4 channels simultaneously



BALANCER

 Intuitive graphical balancing procedure



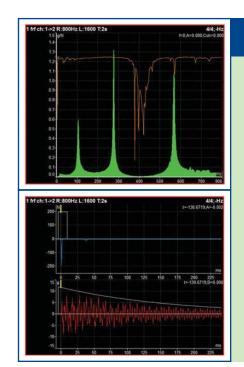
EXPERT SYSTEM

> Automatic fault detection



ROUTE

- > 8000 measuring points
- > DDS software



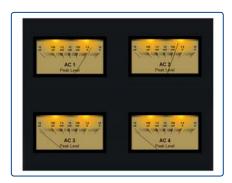
FREQUENCY RESPONSE FOR MODAL ANALYSIS

- The A4400 VA5Pro enables to measure frequency response for modal analysis purposes. It is attractive substitute for large systems, which are usually used for modal analysis measurements.
- > Data are exported in UFF format. They are easily imported to every modal analysis software.



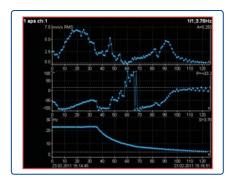
Trigger Mode:	single
Runup Mode:	time
Speed Change[Hz]:	1.00
Time Change[s]:	1
Trigger Source: am	plitude
Pretrig[%]:	25
Ampl Trig Channel:	1
Ampl Trig Level[N]:	-25
External Trig Edge:	rising
External Trig Level[\	/]: 1
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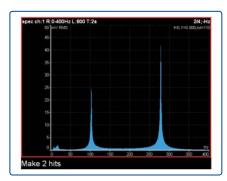


STETHOSCOPE

> Listening of vibration signal



RUN UP/COAST DOWN

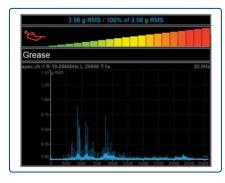


BUMP TEST



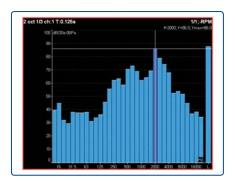
THERMAL IMAGING

 \rightarrow Shows temps from (-10) - 150 °C

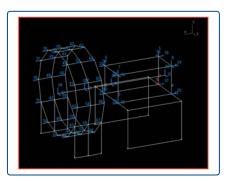


LUBRI

 Monitoring and control of lubrication process

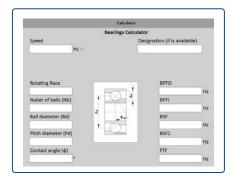


OCTAVE ANALYSIS



ADS

> Animated deflection shapes

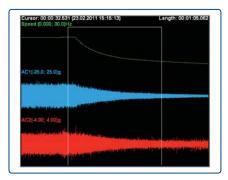


CALCULATOR

- > Simple calculator or conversions
- > bearing fault frequencies
- > belt frequencies
- > gearbox calculators



RECORDER MODE - WHEN IT IS USEFUL



RECORDER

- > 4 channels recording
- > 20 hours signal recording

Let's say you are going to measure a big industrial blower to find out its behavior during run up. You place the sensor on the machine and set up your measurement. Then you ask the operator to run it and he starts the machine. After a few seconds you realize that you have set your measurements incorrectly and you ask the operator to stop the machine and run it again. But his answer is: "I am sorry sir, the control system will not allow me to run it again, we cannot stop the production now, you have to come over here next month." This could be a problem for you, couldn't it? With the Recorder mode you will avoid such a situation.

Just place the sensor on the machine, run the Recorder mode and record the raw signal during the run up of the machine. Later on, you can analyze this record in the office. In other words you can set any measurement which you like and play this recording again and again to get the required results.



RAW SIGNAL RECORDING

- Record the raw signal when you are not sure about the setting. Post-analyze the recorded signal later in the office.
- With the A4400 VA5Pro you can record up to 4 channels simultaneously.
- > A4410 Virtual Unit software for post-analyzing is possible to download from Adash website free of charge.
- 20 hours signal recording (4 channels, 64 kHz sampling frequency)



POCKET ANALYSER & VIRTUAL UNIT

POCKET ANALYZER



Connect Pocket Analyser to your laptop and get all functions of 4 channel Vibration Analyser



Free download of Virtual Unit software enables you to try all functions of the analyzer on your computer The Pocket Analyser is a pocket sized 4 channel vibration analyzer.

Connect the Pocket Analyser to any computer by USB and use the unit for data analysing, collecting and the recording of vibration signals. The instrument is enhanced by modules for dynamic balancing, measurement of run up and coast down and acoustic measurement mode. The instrument is equipped with an expert system which automatically detects machinery faults.

The instrument is powered directly by USB connection so no external power is needed.

Ordering Information

VIB-CT-50032

Pocket Analyser (no sensor included)

VIB-CT-50047

Acceleration Sensor Complete push /pull

(including spiral cable and magnet base)

Sensitivity 100 mV/g
Resonance Freq. 30 kHz
Operating Temp. -55 - 140 °C
Connector push / pull

VIB-CT-50006

Laser Tacho Probe

VIB-CT-50038 **US-Microphone**

Virtual Unit Software

Pocket size 4 channel Vibration Analyzer Input channels: 4 AC, ICP® (ON/OFF), 4 DC, 1 TACHO

Virtual Unit



STROBO

STROBOSCOPE







- Flashing frequency range from 0.5 Hz to 500 Hz
- > Control of the flash duration



Flashing controlled by internal or external triggering

Stroboscope enables to ostensibly stop rotating or generally periodic (reciprocating) motion of a machine. It allows also to find out the speed of rotation or to perform synchronized measurements without having to use reflective markers on the shaft.

The A4950 stroboscope uses three ultra-bright LEDs with optical system as a source of flashes. The device is equipped with a colour graphic display and 3 operational buttons. Operation is very easy and intuitive. Two standard or rechargeable AA batteries are used for powering. The A4950 stroboscope can be used also as a tachometer by connecting an external speed probe.

Ordering Information

VIB-CT-50053

Strobo

VIB SIMULATOR

SENSOR SIMULATOR



Quick check of cables, analyzers

and monitoring systems

The Vib Simulator device behaves like a standard ICP® acceleration sensor with a sensitivity of 100 mV/g. The unit generates precise amplitude levels on 80 Hz and 8 kHz frequencies. The Vib Simulator enables the user to check measurement precision and functionality of analyzers, vibration meters, protection and monitoring systems.

Vib Simulator

- > Simulates the acceleration sensor 100mV/g
- > Two output connectors MIL, BNC

Ordering Information

VIB-CT-50042

VIB Simulator

Simulates one standard sensor 100 mV/g



VIBRATION MONITOR

ONLINE MONITORING SYSTEM - IT HAS NEVER BEEN FASIER!

The Vibration Monitor is a powerful online monitoring system for rotating machinery.

The Vibration Monitor system can operate as an independent monitoring system or it can be used as an extension of an existing protection system.





Adaptive data acquisition algorithm



All channels are measured simultaneously. The modules can be easily combined to create a system with more channels.

Vibration Monitor Plus / Standard

- > 16 channels AC
- > 16 channels DC
- > 4 TACHO inputs
- > 16 BNC buffered sensor signal outputs
- 16 programmable relay outputs (plus version only)
- > 16 programmable 4-20 mA outputs



Vibration Monitor Compact

- > Optional number of input channels
- > 4 16 channels AC
- > 4 16 channels DC
- > 1 4 TACHO inputs
- > Adaptive algorithm of data acquisition
- > Compact size, DIN rail mounting

Ordering Information

VIB-CT-50044

Vibration Monitor Plus (3U)

16 channel synchronous measurement

VIB-CT-50003

Vibration Monitor Standard (2U)

16 channel synchronous measurement

VIB-CT-50056

Vibration Monitor Compact

4 channel synchronous measurement extendable to 4x4 channel multiplex

VIB-CT-50058

Vibration Monitor Compact WiFi Module

WiFi Standard 802.11b/g/n

VIB-CT-50057

Vibration Monitor Compact License

(license for additional 4 channels)

VIB-CT-50006

Laser Tacho Probe

SEN-CT-16910

Inductive Tacho Sensor

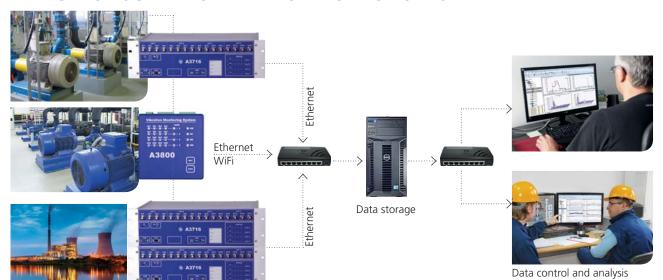
VIB-CT-50059

Data Manager

Setup of Online Systems



APPLICATION SCHEME OF VIBRATION MONITOR UNITS



There are 3 version of the Vibration Monitor available.

- > A3800 Vibration Monitor Compact
- > A3716 Vibration Monitor Standard
- > A3716 Vibration Monitor Plus

The A3800 Vibration Monitor Compact is a 4 to 16 channel on-line monitoring and diagnostic system. The compact size enables it to be placed directly on the DIN rail in the switchboard.

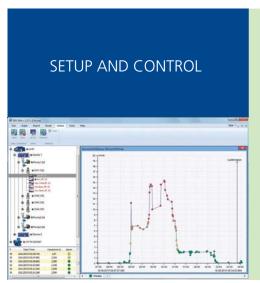
The unit has an optional number of AC and DC input channels - 4, 8, 12 or 16. AC and DC channels are separate. This means that the 4-channel configuration allows you to connect 4 AC and 4 DC channels. Depending on the number of active input channels, it uses 1 - 4 independent TACHO inputs.

The number of active channels can be extended by purchasing additional licenses. Each group of 4 channels allows fully simultaneous measurements. Groups of 4 input channels are switched via a multiplexer. The Vibration Monitor Compact is available with an optional WiFi module.

The A3716 Vibration Monitor Standard and Plus system contains 16 AC, 16 DC and 4 TACHO inputs. All channels are measured simultaneously.

The Standard version only needs 2 Slots (90mm height) in your 19" aluminium rack while the Plus version will need 3 Slots (135mm height). The Compact version is placed directly on the DIN rail in the switchboard.

The plus version also offers additional connections like 16 relay outputs, 16 (4-20mA) current loops and 16 BNC outputs.

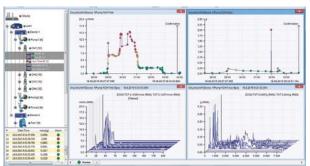


- The set up and control of the Online units is done by the Data Manager. The set up has never been easier. Storage of data and evaluation is handled with the DDS software.
- > The new data acquisition control system was developed for the Vibration Monitor. Now the unit reads the vibration continuously, not only at predefined time intervals. The adaptive algorithm saves the readings to the database.
- The Vibration Monitor unit continuously monitores the required machines and adaptively saves the readings to the data storage computer. The data is accessible from various workstations for control and analysis.
- The great advantage of the DDS software is its very easy set-up. There is no difficult installation of the server anymore and no complicated set-up of parameters. The demands for transfer and data storage are minimized.



DDS-SOFTWARE

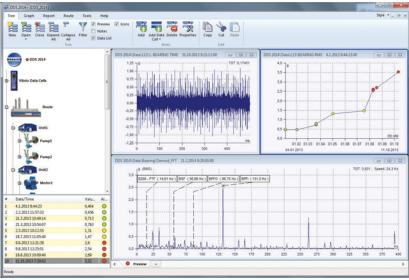
A POWERFUL TOOL FOR DATA STORING AND EVALUATION



Limit values



Report



Bearing-control

User friendlyHigh reliability

The Digital Diagnostics System software represents a powerful tool for storage and evaluation of vibration and technical diagnostics data. It allows the user to connect and work with data collected by portable data collectors and on-line monitoring systems. In the full configuration, it includes all the functions necessary for data transfer, analysis and data storage.

DDS software communicates with all vibration meters and analyzers and also with the online monitoring systems.

- > Spot damages using trending and comparison
- Use the DDS software to collect data and analyze them later at your convenience
- An integrated easy to use reporting tool allows generation and transmission of standardized reports
- The extendable bearing database included in the software allows a precise analysis of damage causes
- Waterfall diagrams support the historical display of frequency spectra
- Quickly navigate measuring points and machines of your assets due to the established tree structure
 - Fast and easy comparison of measuring points due to drag and drop capability

Ordering Information

VIB-CT-50004

DDS Data Diagnostic Software (full access / no limits)

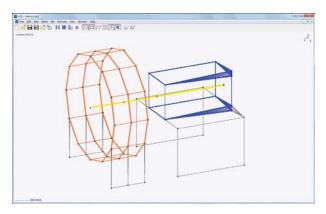
VIB-CT-50045

DDS Data Diagnostic View Software (no changes of the tree)



ADS-SOFTWARE

VISUALISATION OF VIBRATION MOVEMENT





Immediate visualization of the vibration movement

ROUTE DOWNLOADER

SEND THE ROUTE TO TECHNICIAN ON THE OTHER SIDE OF THE WORLD



The Animated Deflection Shapes software is based on the method of operating deflection shapes. This means that we visualize the vibrations of the machine by animation. During the animation the vibration movement is slowed down to very low frequency and the amplitude of the motion is increased so we can see the vibration.

It is a combination of vibration measurement and software processing. The output of the method is vibration movement animation on one forcing frequency or on multiple forcing frequencies.

The output of the method is easily understandable for everybody.

Ordering Information

VIB-CT-50033

ADS Animated Deflection Shapes Software

Route Downloader is a simple tool for Route transfer. DDS software can create the Route tree as one small file. You can send this file through email to your technician who is far away and who does not have an access to DDS software. He will load the Route tree to his data collector through Route Downloader and will take the readings. Then he will create again one file in the Route Downloader and send you this file (with measured data) back to you. This file will be read by DDS and measured data will be stored into your DDS Route tree.



Route Downloader is compatible with all portable devices



Includes free software



Sensor, Cables and Connectors

Our range of AC 100mV/g accelerometers is designed for use with all types of data collectors and online systems using two-wire constant current method of drive. The range includes standard, high performance premium accelerometers, each manufactured to the highest ISO standards and backed by our outstanding technical customer support services.



Acceleration Sensor Complete



Acceleration Sensor Single



US-Microphone



Options include sensitivities of standard 100mV/g, or choose from: 10mV/g, 30mV/g, 50mV/g, 250mV/g or 500mV/g.

The complete acceleration sensors do come with sensor, coiled cable and magnet since this is the most common combination for data collectors.

Ordering Information

VIB-CT-50047

Acceleration Sensor Complete push /pull

(including spiral cable and magnet base)

Sensitivity 100 mV/g
Resonance Freq. 30 kHz
Operating Temp. -55 - 140 °C
Connector push / pull

VIB-CT-50005

Acceleration Sensor Complete binder

(including spiral cable and magnet base)

Sensitivity 100 mV/g
Resonance Freq. 30 kHz
Operating Temp. -55 - 140 °C
Connector Binder 712

VIB-CT-50012

Acceleration Sensor Single

Sensitivity 100 mV/g
Sealing IP68
Resonance Freq. 30 kHz
Operating Temp. -55 - 140 °C
Connector MIL2

Mounting Thread 1/4"-28 UNF female

VIB-CT-50015

MIL2 Connector for Acceleration Sensor

VIB-CT-50038

US-Microphone

Option for Vibration Analyser VA3 & VA5

VIB-CT-50006

Laser Tacho Probe

Option for Vibration Analyser VA3 & VA5 Option for Vibration Monitor A3716

VIB-CT-50009

5 m Extension Cable for Sensor

push / pull or Binder 712

VIB-CT-50010

10 m Extension Cable for Sensor

push / pull or Binder 712



Measuring Pads

To achieve a comparable measuring trend it is recommended to stick to the same routine at every measurement.

To help with consistent measurements CMT is offering Measurement Pads.

The Measuring Pads are glued on the machine to guarantee that the same measuring spot is being used at every measurement.

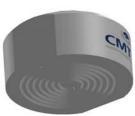
Most important for good results is a tight and firm connection between sensor and machine. The established best practice is to use CMT Measuring Pads.

The Measuring Pads are equipped with a yellow protection cap for easy recognition and protection against any dirt or paint.

CMT uses specially packed rapid curing synthetic metal glue to permanently mount measuring pads on metal surfaces. Simple hand mixing ensures activation reaction between the concentrically packed components.

All loose material, rust and surface contaminants, including existing coatings, must be removed and the surface roughened by using an angle grinder etc.





Measuring Pad for Magnet (flat surface)

Ordering Information

VIB-CT-50051

Measuring Pad for Magnet (10)

Flat surface

(including protection cap) Diameter / Hight: 24 /10 mm

VIB-CT-50050

Quick Fit Measuring Pad (10)

Mounting Thread quick fit (including protection cap) Diameter / Hight: 24/10 mm Wrench size: 22 mm

VIB-CT-50011

Measuring Pad for Stud (10)

(recommended for permanent installation)

Mounting Thread M6 x 1 mm Diameter / Hight: 24 /10 mm Wrench size: 22 mm

VIB-CT-50052

Screw Studs (10)

M6 x 1 / 1/4"-28 UNF Threads:

VIB-CT-50018

Epoxy Metal Glue for Measuring Pads

2 hours at 20°C Drying time:

Max. Temp: 120 °C

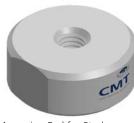
Handling time:

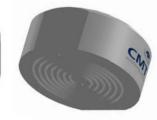
20 - 30 pads Capacity:











Measuring Pad for Studs



Sensor Bases & Magnets





Magnet - Pole Piece





Magnet - Flat Face





Quick Fit Base for Sensor

As a standard connection to achieve reliable results it is intended to use a Measuring Pad on the machine with the magnet mounted to the sensor. CMT provides two different magnets for curved and flat surfaces.

The best results will be achieved with the newly designed CMT Quick Fit connection. This requires one Quick Fit Base attached to the sensor and on each measuring point, which are protected with a yellow cap while it is not in use.

Permanently installed sensors should have a bolton connection using the measuring pad with a stud.

Ordering Information

All Studs for Sensors 1/4"-28 UNF male

VIB-CT-50029

Magnet - Pole Piece

Diameter / Hight: 25 /18 mm
Pull Strength: 20 kg

VIB-CT-50021

Magnet - Flat Face

Diameter / Hight: 30 /10 mm Pull Strength: 25 kg

VIB-CT-50048

Quick Fit Base for Sensor

Mounting Thread quick fit
Diameter / Hight: 24 /10 mm
Wrench size: 22 mm

Quick Connection Box



Key features:

- Provides a terminal to take readings from accelerometers via a portable data-collector
- > Multiple outputs via multiple connectors
- > Compatible with all of CMT's vibration devices
- > IP66 certified
- > Intrinsically safe version available on request

The Connection Box is used as a terminal to collect the signals from multiple channels and to supply them for external readings.

There is no need to check on every measurement point. Just connect your sensors to the Quick Conntection Box and you can take all measurements at the box.

Easily switch from one Sensor to the next.

This high quality product is made from stainless steel and is IP 66 certified. That makes it perfect for the use on board of a vessel.

The Quick Connection Box is compatible with all of CMTs vibration devices. There are multiple output options available on request.

Ordering Information

VIB-CT-50055

Quick Connection Box

(BNC Output)



CM Technologies GmbH Marie-Curie-Str. 5 25337 Elmshorn, Germany Tel: +49 (4121) 700890 Email: info@CMTechnologies.de Web: www.CMTechnologies.de





