

Vibration Handheld Instruments



A range of instruments and capabilities

Falcon

Falcon is our most sold hand held vibration data collector!

The instrument is powerful at an affordable price. It is in use today onboard ships, rigs and in land based industry all around the world. Choose packages from ESSENTIAL, SMART or EXPERT

FALCON Essential:

The ESSENTIAL data collector package is especially adapted to those who want to start condition monitoring and discover the world of vibration monitoring and analysis step by step. It is also perfect for companies using a service partner like IKM for analysis and reporting. Data recording is easy and requires minimal training and expertise. Service partner implements and sets up the measurement routine and interval. The FALCON Essential can also be used in CM class scheme by ABS, DNV GL or Lloyds.

FALCON Smart:

The SMART data collection package is especially adapted to those who want to improve the reliability of their facilities in a very productive and easy way. With FALCON SMART data collector, the expert is in the box!

FALCON Expert:

The EXPERT data collector package is especially adapted to all users who have good knowledge of vibration analysis and can provide reliable diagnosis and maintenance recommendation on their own. The EXPERT data collector package will provide them with the most productive tool of the market, thus helping them to drastically save time.



Key Features:

- Wireless sensor (optional)
- Built in pyrometer, stroboscope
- Built in camera (optional)
- Large color display
- Touch screen
- Innovative interface for all users
- Cloud based solutions (optional)
- Designed for all users
- Embedded automatic diagnostics
- Module based, easy to expand with new functions
- Can be upgraded from Essential all the way up to Expert



FAN YPZ244



Drying workshop



Tour burning area #2

1234 RPM

15/06/12 15:36:24

6/6 points

Dangerous global state for component Fan : it is recommended to stop the machine.

Good global state for component Motor.

severity

confidence



Bearing defect : wear



Unbalance



FALCON accessible options:

- Digital Recorder: This option increases the time signal acquisition capability to ranges of signals up to 4,096 Ksamples or 80 s to be distributed over the number of channels used. This option is available as standard function in the EXPERT package.
- Offroute Analyzer: with the off-route option FALCON becomes a powerful multichannel spectrum analyser including the possibility to perform "bump test" measurements.
- Balancing Module: The balancing module can be added as an option to all packages
- Run-Up / Coast down module: with the Run-Up/ Coast Down FALCON provides all tools required to analyze start-up and shutdown phases of rotating machines. The Run-Up/Coast Down module can be added as an option to all packages.
- FRF – ODS – X phase analysis module: this advanced analyser module allows for the precise determination of the root cause of the most complex vibration problems by measuring vibration on several channels with cross phase information, between a reference channel and the other ones. The FRF – ODS – X phase module can be added as an option to all packages.
- Automatic Diagnosis Pack: The automatic diagnosis capabilities, as well as the automatic setup module for automatic diagnosis (required), can be added as option to the ESSENTIAL package. Note: These functions are available as standard functions in the SMART and EXPERT packages.
- Upgradeability: Each FALCON package can be upgraded. You can upgrade your instrument from one package to another at any time.
- Sensor Option: Standard ESSENTIAL, SMART and EXPERT packages are provided with a wireless triaxial accelerometer (classic wired single-axis accelerometer in option). A wired version of these packages (wireless triaxial accelerometer in option) is however available upon request.

FALCON fits your needs				
FALCON	ESSENTIAL Efficiency at the best price	SMART Automatic, fast and easy	EXPERT Unrivalled performance for critical machines	ULTIMATE Mastering vibrations
Fast data collector	✓	✓	✓	✓
Embedded strobe light		✓		
Embedded pyrometer				✓
Wireless tri-axial acquisition		✓	✓	✓
Built-in Automatic diagnosis				✓
Embedded camera				✓
Expert measurements 4-channels			✓	✓
Balancing Module	Option	Option	Option	✓
FRF/ODS Module	Option	Option	Option	✓
Run-Up Coast down Module	Option	Option	Option	✓
NEST software				
First level of analysis	✓	✓	✓	✓
Reports and supervision				✓
Automatic setup for auto diagnosis	✓	✓	✓	✓
Advanced and automatic analysis tools			✓	✓
Price				

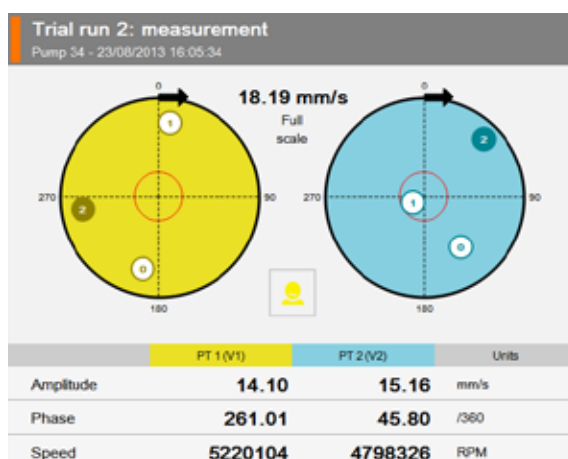
Hawk Balancer

The HAWK Balancer allows correcting unbalance on your machines. It can balance rotors of any size, from the simplest to the most complex (1 to 4-plane balancing). Using multi-channel acquisition, parallel measurements are possible on all sensors.

HAWK Balancer includes all tools to guide the operator and control the results during the entire balancing process:

- Easy to use with the "guided" mode
- Graphic display of measurements and weight positions
- Automatic setup of tachometer
- Trial weight estimation
- Control of the data at each step with recommendation to improve result quality
- Rotation speed control
- Tools to split or merge weights
- Result assessment according to ISO 10816-3 and ISO 1940
- Get a detailed report documented with histograms, pictures and spectra.

With HAWK, the balancing of your machines is more accurate, more secure and faster.



HAWK is especially suited:

- For all mechanics carrying out corrective actions on rotating assets
- For all industries not using condition monitoring yet and requiring easy-to-use solutions (water and waste treatment, food industry, pharmaceuticals, offshore, maritime etc)

Meggitt

Machinery Mate MAC800 handheld vibration meter is an entry-level “low budget” easy to use instrument. The instrument is perfect for spot checks, trending and overall vibration and bearing values acceptance testing.



Example:

If you already have or consider implementing a condition monitoring agreement with an external service provider like IKM.

Use the MAC 800 to trend development in between scheduled machine diagnostic report from service provider.

Key Features

- Internal data storage
- Data trending software
- Standard cable mounted accelerometer with magnet
- Built-in Bluetooth communication capability
- USB docking station for PCs
- Built-in ISO alarms
- Easily identify bearing problems with BDU reading
- 800 line FFT spectrum
- Ruggedized IP67 case
- Listen to bearing noise with headphones (optional)
- View running speed with strobe light attachment (optional)

Vibration Spot Check

Easy to use instrument for vibration and temperature spot check.



Key Features

- Velocity & bearing condition
- Used to monitor vibrations and temperature without installing equipment
- Rechargeable battery used with mains or in-car charger
- Sensor/cable fault indicator
- Display hold function
- Choice of metric or imperial units
- Automatic alarm check for bearing condition
- Conforms to ISO 2954 and ISO 10816-3



IKM Instrutek AS, Main office

Elveveien 28
3262 Larvik, Norway
T: +47 33 16 57 00
F: +47 33 16 57 01
E: CM.IKMinstrutek@IKM.no

IKM Instrutek AS, Dept. Stavanger

Skvadronveien 24
4050 Sola, Norway
T: +47 33 16 57 00

IKM Instrutek AS, Dept. Bergen

Johan Berentsens vei 63
5160 Laksevåg, Norway
T: +47 55 50 64 10

IKM Instrutek AS, Dept. Ålesund

Brevika Industriveg 48
6018 Ålesund, Norway
M: +47 40 41 91 58

www.IKM.com/ikm-instrutek

