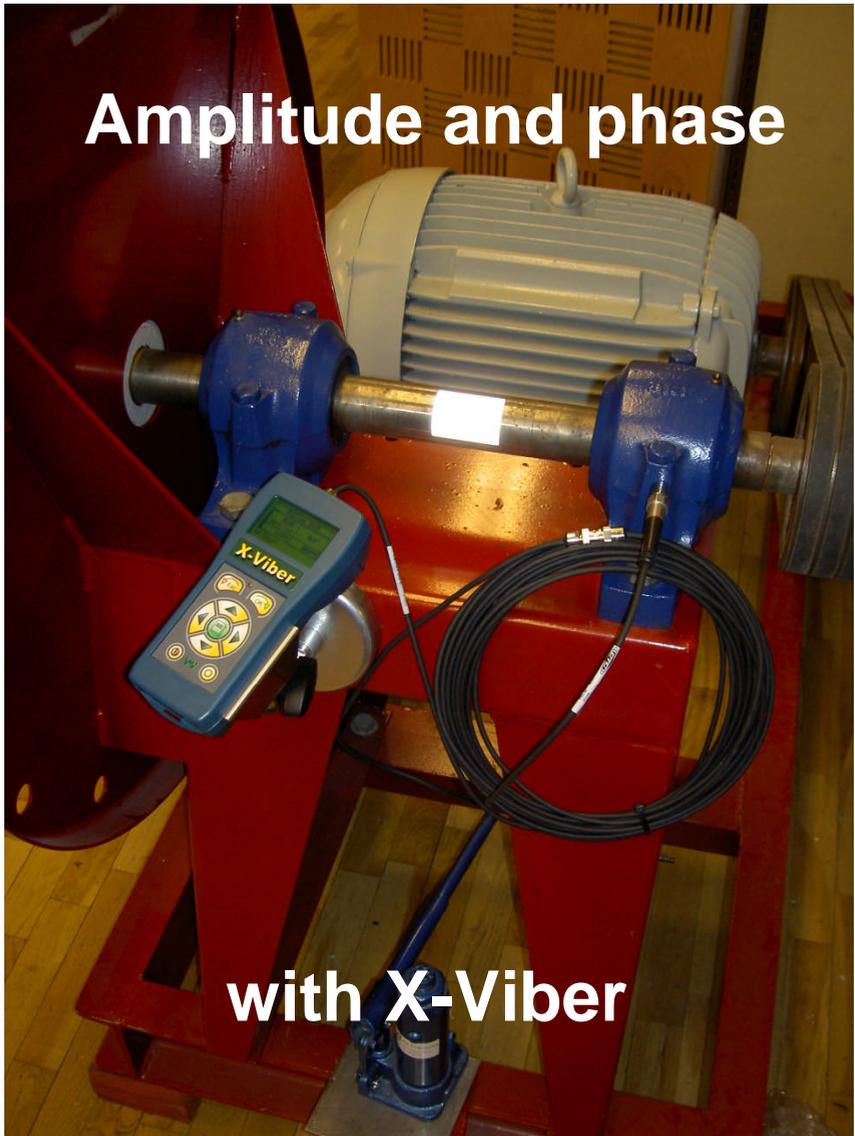


# Amplitude and phase



with X-Viber

Version 1.00  
VMI AB 26 Mars 2007

Press firmly the **ON/OFF** or **ESCAPE** or **OK** button until the instrument starts.



Move the black line with the  **Up** or **Down** buttons to **Measurements** and press the **OK** button.



Move the black line with the  **Up** or **Down** buttons to **Single plane bal.** and press the **OK** button.



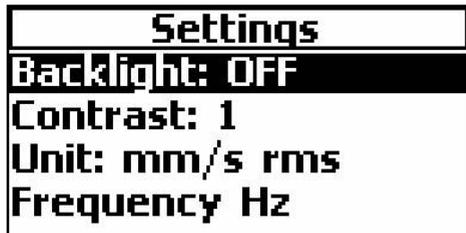
The Amplitude&Phase window is now open, but before we start to measure we have to make some settings in the Settings window.

Press the  Settings button and the Settings window will appear.

Move the black line with the  **Up** or **Down** buttons to the line you want to change.

Press the side arrow  buttons to change the settings.

Press the  Settings button again and the Settings window will disappear.



X-Viber starts to measure as soon as this window is open. Adjust the laser indicator towards the reflex tape on the shaft so that a stable RPM or Hz reading is achieved.

Amplitude&phase	
10.22 mm/s rms	X1 RPM
263.1°	49.7 Hz
2-200Hz	

This part shows the vibration level and unit.

This part shows measured speed multiple.

The readings are stable when this bar is low.

This part shows the shaft speed with unit.

X-Viber can measure Amplitude and Phase within this range.

This part shows the phase.

Press the  Aux or Hold button to temporarily stop the measurement.

This message appears, when the RPM transducer can not sense the reflex tape on the shaft.

Amplitude&phase	
10.17 mm/s rms	X1 RPM
261.7°	49.8 Hz
No trigger <span style="float: right;"><b>Hold</b></span>	

Press the  Aux or Hold button again to continue measuring.

Hold is shown while the instrument has temporarily stopped measuring.

**Note.**  
You can not store any measurements the only way is to Hold a measurement.

Press the Up or Down arrow  buttons to increase or decrease the multiple between 1 to 5.

Amplitude&phase	
1.03 mm/s P	X5 RPM
310.9°	49.8 Hz
No trigger <span style="float: right;"><b>Hold</b></span>	

Press the Escape  button to go back to the Analysis menu.

## Hardware installation

1. Put a piece of the reflective tape on the shaft.
2. Insert X-Viber into the magnetic holder and direct the RPM sensor towards the reflective tape. The distance between the X-Viber and the reflective tape should be at least 200mm. Tighten the locking screw.
3. Mount the vibration transducer on the bearing and in the direction where you want to measure.
4. Use the extension cable if the distance between the instrument and the measuring point is longer than 1m.



5. If the X-Viber has difficulties to measure the speed then put the instrument in an angle towards the reflective tape as in the picture above and try to increase the distance between the X-Viber and the tape.  
If the instrument is measuring the speed at low but not at high speeds the reflex tape is probably too small.

Amplitude&Phase is useful when measuring multiple points such as on a turbine with many bearings or for animation of machinery vibrations.

Amplitude&Phase with multiple 1X is useful when measuring the stability of an unbalance. If the level and phase is unstable something in the rotor might be loose.

Amplitude&Phase with multiple 2X is useful when analysing misalignment.

## 4 Amplitude&Phase