CXM FFT Analyzer
CXB Balancing Instrument

<u>New improvement</u>

From the firmware revision: VER.1.33 for CXM and VER.1.44 for CXM, a new feature has been added: *Overall level trending*.

Now, the *Overall level* screen can be shown in two ways:
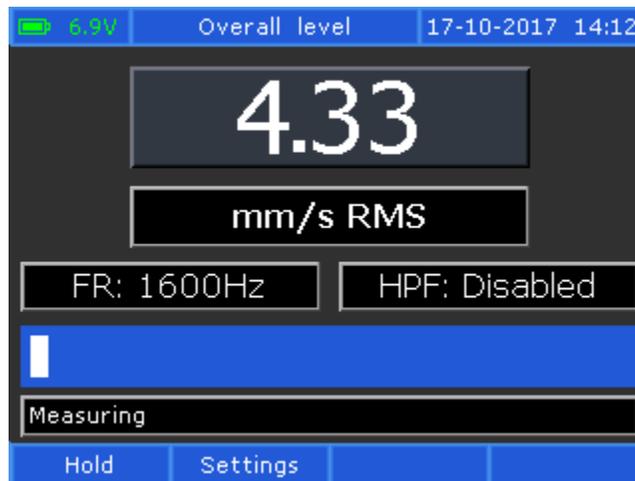a. Standard view (Fig. 1)

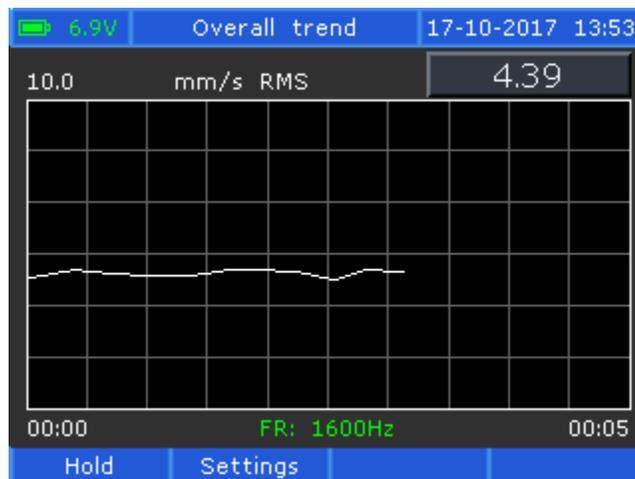Figure 1 - Overall level (standard view)

b. Trend view (Fig.2)

Figure 2 - Overall level (trend view)

The user is able to switch between these two modes, by pressing F2 (Settings) key.

The *Overall level* Settings menu is shown in Fig.3.

Figure 3 - Overall level (Settings menu)

View settings can be either: *Overall* or *Overall trend*.
Only for the *Overall trend* mode a supplementary settings line is available: *Trend points*. The user is able to change trend points from a list.
Once the setting is done, this is stored in the non-volatile memory. Next time, when the user selects *Overall level* menu, the view will be in accordance with the last settings.

Using Overall trend

This new feature is very usefully for many purposes:
- Determines the vibration measurement stability. If the transducer base or magnet is not placed firmly on the machine surface, the readings will be unstable. Also, this is the case when the cable is (partially) defective.
- Determines the "beat" phenomenon. When the machine is closed to another and both are running on the same speed, the "beat" appears. The readings increase and decrease constantly, in one or two seconds. In such conditions, the data collection (in route) will give a false spectrum.
- Determines if the pump suction is partially obstructed (de ex. Dirty filter). Also in this case the trend will indicate unstable readings, but erratic.

In any case, when the user has any doubt regarding vibration measurements, he can use this new tool to establish the cause of these.