

**Function extensions for VIBROTEST 60**

Dear VIBROTEST 60 user,

The modular concept of VIBROTEST 60 allows very comfortable integration of new measuring functions and improvements. Today we have pleasure in introducing to you VIBROTEST 60 version 4, a further new milestone with the progress of development.

The following is an overview of the functions of the new version's individual modules:

**Module 1.1: Basic module „Overall values for machine evaluation“**

- Overall vibration measurement
- Bearing Condition Unit (BCU) measurement
- Variable Band-pass measurement
- Listing function
- Keyboard entry function
- Measurement of Process values
- Speed measurement

**Module 1.2: Extension module „Overall values for machine evaluation“**

- Overall measurement vs. speed  $f(n)$
- Overall measurement vs. time  $f(t)$

**Module 2.1: Basic module „Machine diagnosis“**

- FFT Frequency analysis

**Module 2.2: Extension module „Machine diagnosis“**

- BCS-/SED Envelope curve analysis, Cepstrum analysis

**Module 3: Tracking analysis**

**Module 5: Dual-channel function**

- Dual-channel measurement of all values from modules 1.x; 2.x; 3 and 8

**Module 6: Data-collector** Weber

- Supports all the measurement functions of modules 1.1; 2.x and 8

**Module 7: BALANCING EXPERT**

- Dual-channel field balancing
- 1-plane balancing
- 2-plane balancing
- 1 – 2 plane with prognosis
- Adaptive-mode for faster balancing of non-linear rotors

**Module 8: CPB spectrum**

Added to this, a series of improvements in the instrument's operation and new functions for extended graphic display of the measurements have been implemented in the version 4.

Enclosed is information concerning the desired extension steps that correspond to our order confirmation. Please take special notice of the hints for updating and upgrading the VIBROTEST 60. Should you have any problems, please contact our technical Hotline in Darmstadt (Tel.: 06151/428-1400, Fax.: 06151/428-1200) or one of our colleagues in our customer field service.

Naturally we're always ready to send you further information or a proposal at your request for the extension functions of VIBROTEST 60. We're confident that VIBROTEST 60 version 4 will provide you with more performance power for use in a wider range of applications.

Sincerely,

Brüel & Kjær Vibro GmbH

p.p

*Börries Homann*

## **Updating of the instrument firmware and release of the function extensions**

### **1. Updating of the instrument firmware (Update)**

Updating the instrument firmware is executed in a simple way using the PC-card.

First of all the newest version of the instrument firmware must be copied onto the PC-card.

This can be executed in one of two different ways.

#### **1.1 Copying the firmware from a diskette**

If you receive the newest instrument firmware version (V 4.35 or higher) on a 3.5" diskette in Winzip format, the following steps must be undertaken:

1. Insert the PC-card and the diskette into their respective drives.
2. Using Windows Explorer, double-click on the file VT60\_4.35.zip
3. Extract both files. When requested to do so, enter the PC-card drive as the target.
4. Make sure after the procedure is completed, that the files

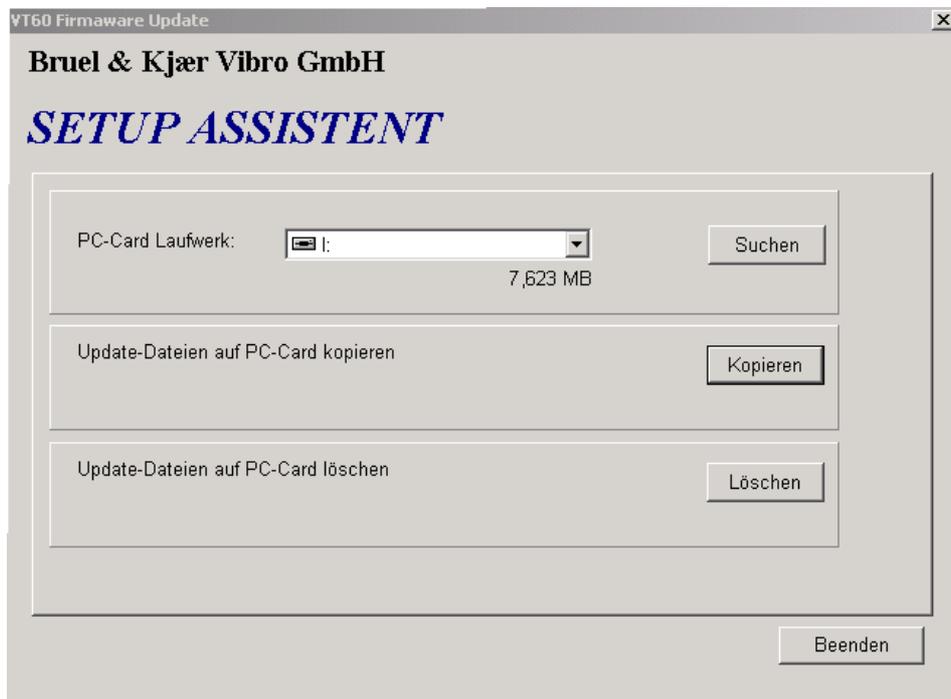
**Setup.ini**  
**System.bin**

have been copied to the PC-card.

#### **1.2 Copying the firmware from a CD-Rom (xms / extended monitoring firmware Version V 1.2.11.1111 or higher)**

If you received the newest instrument firmware version on the CD-Rom of the firmware xms – extended monitoring firmware, the following Steps are necessary:

1. Insert the xms CD-ROM into the CD-ROM drive of your PC or notebook and start the file *VT60Update.exe* in the directory \\VIBROTEST 60\\. The easiest way to do this is to use the data management program, e.g. Windows Explorer.
2. Select the desired language; the Setup Assistant should start automatically. After starting the update procedure with „Continue“ the following screen display will appear:



3. Select „Copy update files to PC-Card“ by clicking on the button „Copy“. The Setup Assistant will copy the respective files to the PC-Card. In the example above this will be the PC-card in drive I:
4. Close the Setup Assistant by clicking on the button „Exit“. Make sure after the procedure is completed that the files

**Setup.ini**  
**System.bin**

have been copied to the PC-card.

### 1.3 Loading the instrument firmware into the measuring instrument

**Note:**

**A failure of the power during the installation of a new instrument firmware may result in a total failure of the instrument. To avoid this a fully-charged battery pack should be inserted into the instrument and the instrument should be laid in it's charger cradle during the entire installation procedure.**

After both the „Setup.ini“ and „System.bin“ file have been copied to the PC-card, the following steps are necessary to load the new firmware into the measuring instrument:

1. Insert the PC-card into the VIBROTEST 60
2. Lay the instrument (with a fully-charged battery pack) on the charger cradle
3. Switch the instrument on
4. Push the softkey „ENTER“

The new firmware will now be automatically installed in the VIBROTEST 60. The installation is completed when „Page 15“ in the display has been processed (marked with an X).

**Do not switch the instrument off until this is completed !!!**

**Note:**

It is quite normal that during an update procedure not all of the „pages“ will be marked with an „X“.

After the installation, remove the PC-card from the instrument and also delete both the installation files on the card.

Switch the VIBROTEST 60 on again and check with the „INFO“ button that the current version (version 4.35 or higher) is displayed.

**Caution:**

**After an update of the VIBROTEST 60 to version 4 (firmware 4.35 or higher) it will no longer operate with the software program VIBROEXPERT CM-400. VIBROTEST 60 Version 4 operates exclusively after the update with *xms*.**

## **2. Release of function extensions (Upgrade)**

Extensions of the functions, i.e. release of additional modules.

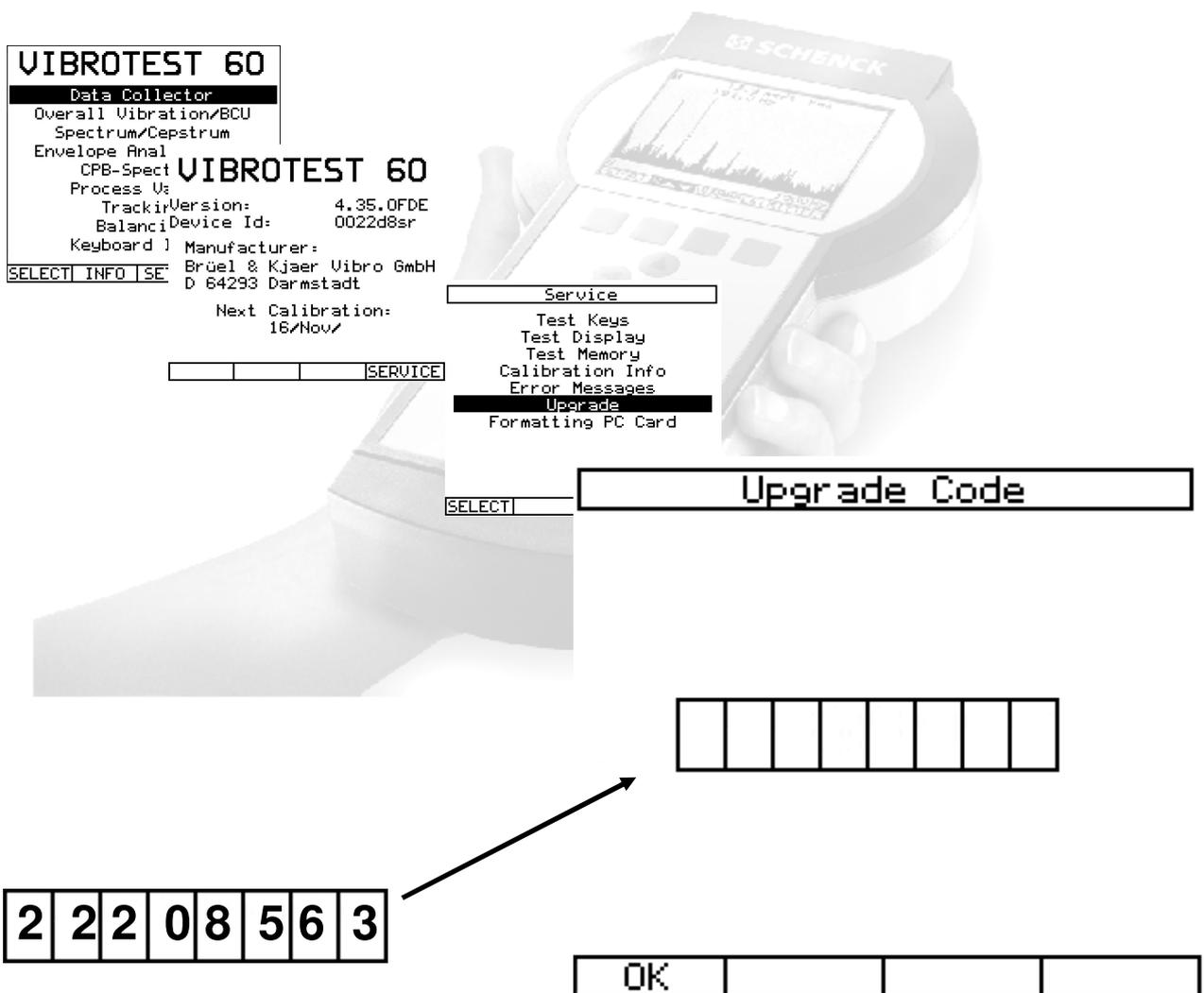
To do this the 8-character upgrade code assigned to the serial number of the instrument must be entered into the corresponding menu of the VIBROTEST 60.

The following is a description of the procedure to carry out in the VIBROTEST 60:

1. Switch the VIBROTEST 60 on by pushing the „ON“ button.
2. Push the „INFO“ softkey in the softkey bar
3. Push the „SERVICE“ softkey at the extreme right of the softkey bar
4. Select the title „Upgrade“ using the cursor buttons and confirm your selection with the button „SELECT“
5. Using the cursor buttons enter the upgrade code number (example on page 7 of 7) and confirm with „OK“

# VIBROTEST 60 version 4 – Upgrade Code

ID- No : 00001603



Menu path

INFO / SERVICE / SELECT (Upgrade) / OK (Upgrade Code)