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• **Performing the data transfer:**

The CD-ROM starts automatically when it is inserted in the drive. Clicking on the "Data transfer" button starts a set up menu for installation. The software for data transfer is automatically installed on the PC together with the necessary settings.

1. Connect the serial interface of the photometer with the PC using a cable in line with the specified pin assignment.
2. Open the program „Datatransfer“ with Start/Programme/Datatransfer PCSpectro
3. Click on button **Test COM-Port** .
4. Select the desired COM-Port.
5. Click on button **Open COM-Port** .
6. Transfer data from PC Spectro (key PRINT at PCSpectro).
7. Click on button **Close COM-Port** .
8. For leaving the program click on button **Quit** .

Further buttons:

Export

To select path and name. Storage of data as Excel-file.

Print

To print out of reported data in the window.

Clear

To delete the reported data in the window.

- **Updates of methods and languages:**

Attention!

Before performing a **method update**, the user should transfer stored test results to the PC or print them out, as these data are deleted during the download process.

Stored customer-specific methods (polynomials or concentrations and the calibration of Fluoride) remain stored.

No individual methods are integrated during a method update; the existing methods are overwritten. In other words, the data packages (parameter lists) always contain all (old and new) methods.

The required software programs are enclosed on this CD-ROM and a parameter list which can be loaded from our homepage.

Store the parameter list for methods (parameters Vx) and for languages (language x) in the same file as the according software.

Performing of a method update

1. Connect the serial interface of the photometer with the PC using a cable in line with the specified pin assignment.
2. Open program "download methods" with double click.
3. Confirm the query for the password with or with „Enter“ .
4. Enter the desired version of the parameter list (e.g. parameters Vx) with .
5. Press ON/OFF for one second on the PC Spectro.
The photometer changes in the stand-by modus.
6. Click on button .
7. In the appearing window select the used COM-Port and confirm with .
8. During data transfer at the PC appears „Download“ and in the photometer display „→ PC“.
9. After some time the data transfer is finished.
(„→ PC“ disappears)
10. Switch the photometer on using ON/OFF key.

Further buttons:

To storage the parameter list.

To print out a list with all methods of the indicated version.

To load the methods from the photometer to the PC.

Programming of the user prompt for the optional language

1. Connect the serial interface of the photometer with the PC using a cable in line with the specified pin assignment.
2. Open program "download languages" with double click.
3. Enter the desired version of the language (e.g. „language option“ or „language x“) with .
4. Press ON/OFF for one second on the PC Spectro.
The photometer changes in the stand-by modus.
5. Click on button .
6. In the appearing window select the used COM-Port and confirm with .
7. During data transfer at the PC appears „Download“ and in the photometer display „→ PC“.
8. After some time the data transfer is finished.
(„→ PC“ disappears)
9. Switch the photometer on using ON/OFF key.
10. After photometer performs self-test select the new language under Configuration [995] in sub menu language.

Further buttons:

To storage the parameter list.

To print a list of phrases for user prompt in the display in English, German, French and Option.

Programming of the user prompt for the optional language

If a desired language is not yet available, the user can write his own user prompt based on Latin characters.

Download the parameter list "language option" from the Internet and store it on the hard disk of the PC. Open the software program "download languages" and load the parameter list "language option". Six columns are visible. The first column "No" comprises internal phrase numbers. The second column "SIZE" specifies how many characters are available in the display. If not specified otherwise, the maximum number of characters is 20 (Space counts as one character). The next three grey-highlighted columns are reserved for the standard languages German, English and French and cannot be changed.

The desired phrases are entered in the right-hand column "Option". Click the button "Check length" to get sure that length of the words is correct. The user should then save the parameter list of the created language version under a new name. The language update is then performed as described above.