

Title: EasyOne Pro – Software Update Instruction

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To: N/A



How to update EasyOne Pro

Caution: Software and device updates should only be performed by qualified individual(s) with adequate training and experience.

1. Data Backup

Export (make a copy of) the patient database on a USB stick:

- Connect the USB stick to the EasyOne Pro.
- On EasyOne Pro select *Utilities* > *Advanced* (“EOPTM”) > *Export*.
- Assure that the *Patient Data* and *Option Settings* option is selected. Click on *Export*.
- Select a folder on the USB stick where you want to save the exported data. Click on *OK*.

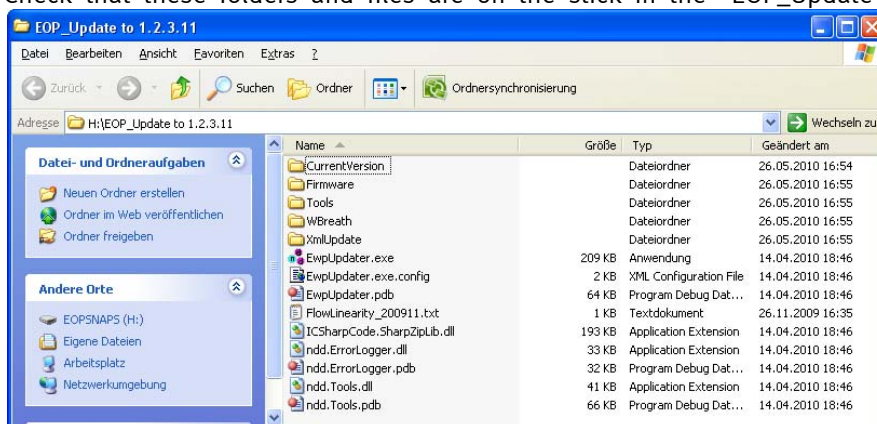
Quality Assurance

Software and device updates should only be performed by individual(s) that know their volumes and DLCO values to assure correct functionality after updates. In addition to the human bio calibration checks, a DLCO simulator could be used to assure the correct device functionality. For a detailed description refer to the appropriate documentation.

2. Software Update

To update the device:

- Extract the EasyOne Pro Updater zip file to the USB stick
- Check that these folders and files are on the stick in the “EOP_Update to 1.2.3.11” folder:



- Connect the USB stick to the EasyOne Pro.
- On EasyOne Pro select *Utilities* > *Advanced* (“EOPTM”) > *Update Software*
- Select the file *EwpUpdater* in the update folder on the USB stick.
- After pressing *Open*, the software will guide you through the update process.
- The databases will be updated (click *Yes* or *OK* when asked to update the database).
- Restart the system after Updating.

3. Check Configuration Settings

Adapt and check Configuration after each update:

- Check if there is the *EPro+* in the status bar on the bottom. If not: select *COM4* as the *Serial COM Port* (*Utilities* > *Configuration*, Select *Device* tab)
- On EasyOne Pro, select *Utilities* > *Configuration*.
- Select the *Test* tab and the *DLCO* tab.
- Check if the values of the Gas Concentration are correct (according to connected gas concentration).
- Activate the option *Automatic Discard Volume*
- Click on *OK*.

4. Flow Linearity

If the new DLCO valve unit is used (see Figure 1, below), the following linearity has to be entered. (*The settings might already be correct if the new DLCO valve unit was used before and the values have been entered on the last update. If you are not sure please verify that the values are correct.*)

Loading the new flow linearity values can be done by loading the file *FlowLinearity_200911.txt* (extracted to the USB stick together with the EOP Updater) or manually with the keyboard:

- On the EasyOne Pro, select *Utilities > Configuration*.
- Select the *Device* tab and the *CO Sensor* tab.
- Press *Advanced* and enter “CO” to log in.
- Change to the *DLCO Valve* tab
- Load the *FlowLinearity_200911.txt* file by pressing *Load flow linearity*. (This file is included in the *EOP_Update_xx.zip*, so it is already extracted on your USB stick).
- Alternatively you can enter the following 16 correction values with a “;” in between:
1029;1029;1029;1029;1029;1029;1031;1034;1042;1045;1043;1014;996;994;994;994
- Select on *OK*.

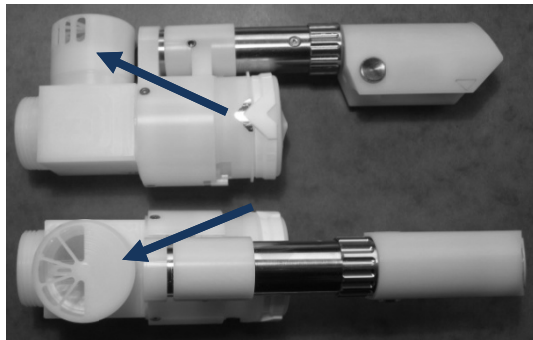


Figure 1: New DLCO Valve Unit

Remark: If an old DLCO Valve Unit is used (with two overflow valves at both sides) check that the *Flow Lin* field is empty. If not, delete the values from the *Flow Lin* field and click on *OK*.

5. Function Test

To assure the correct device function after the update, a complete functional test needs to be performed. This includes a volume accuracy check (calibration check with syringe or bio calibration check without mounted DLCO Valve Unit) and a DLCO accuracy check (DLCO simulator check or human bio calibration check).

When performing human DLCO calibration checks observe carefully the following issues:

- No error message during entire maneuver
- Stable gas and volume concentrations during 10 second breath hold phase
- No warning message after the trial (trial needs to be accepted)
- DLCO value and VI (former VCin) are as expected