

# d•flux Firmware Update

To update the firmware of your device perform the steps in the following chapters.

**Note:** During the update process the unit needs to go off-line and needs to be restarted (Power cycle). The unit will be non-operational during the update. Make sure you do not disturb your process. The process takes total about 5 minutes.

This update of firmware will not change any of your settings in the d-flux.

Required tools and equipment:

To implement the new firmware you need:

1. Windows PC (With USB-C) with the firmware update program already downloaded and extracted (Download ZIP file from our website). Once you downloaded the firmware update, you do not need an internet connection during the update process.
2. A RS485 (2-wire) to USB adapter and suitable cables (Vogtlin kit PN 328-2112, see our website)
3. Physical access to the d-9 connector d·flux meter/controller. The d-flux needs to be powered up (If needed, obtain a separate power supply for the M8 connector from the Vogtlin website). Gas supply does not have to be disconnected during the process, but is is recommended.

## Connect the device

Connect the DSUB cable of the device with the PC (but do not power the device yet).

## Start device in service mode

Connect the power supply while keeping pushbutton pressed. Release the pushbutton as soon as only green and red LED light up (blue LED switches off).

## Start Service Tool and update firmware

### Windows

Start Service Tool which contains the latest firmware version of your device. On startup Service Tool scans for compatible devices connected to your computer and shows a list of devices found.

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| --- | --- |
| achtung | The list of devices does not contain incompatible devices or devices that are not started in service mode. Without device drivers no devices can be found. |

Devices that require a firmware update are indicated by a red light in the list of devices:

|  |  |
| --- | --- |
| Scanning for devices | List of devices |

To start firmware update click the „Execute“ button and wait until update progress is complete.

|  |  |
| --- | --- |
| achtung | Multiple devices can be updated simultaneously. Use this feature to safe time when you have multiple devices to update at hand. |

When the update progress is complete and all devices have been updated successfully a message box is displayed and a green light indicates that device contains updated firmware.

|  |  |
| --- | --- |
| Update progress | Update completed successfully |

|  |  |
| --- | --- |
| achtung | Devices that contain a more recent firmware version are ignored by default. However you can manually choose to replace (downgrade) the firmware of such a device. To do this choose „Revert“ for such a device from dropdown box in column „Action“. |

|  |  |
| --- | --- |
| achtung | The list of devices is not automatically updated when new devices are connected or when devices are removed. To update the list of devices use button „Rescan“. |

### Linux

Open a terminal and go to the directory containing the Service Tool. Type the following commands to start Service Tool using root access rights:

$ chmod ugo+x ./service-tool

$ sudo ./service-tool

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| --- | --- |
| achtung | Service Tool must have sufficient priviledge to access serial ports on your system. Therefore you typically need to start Service Tool using root access rights. |

See section „Windows“ for further steps when Service Tool has been started.

## Restart device

Power cycle the device to startup with new firmware.