

# KNX Technical Reference Manual

## Firmware update

### Update for devices with a 10-pole interface:

The following devices can be updated:

#### Bus coupler:

6108/03-500	SRO/U 1.1.1
6120/12 -500	BA/U 5.1
6120/12-101-500	BA/U 5.2
6120/13-500	BA/U 1.24.1
6125/01-500 (refers to the enclosed bus coupler)	SBB/U1.x.1
6126/01-500 (refers to the enclosed bus coupler)	SBB/U2.x.1
6127/01-500 (refers to the enclosed bus coupler)	SBB/U4.x.1

#### MDRC universal dimmer actuators:

6197/12-500	UD/S 4.210.1
6197/12-101-500	UD/S 4.210.2
6197/13-500	UD/S 4.315.1
6197/13-101-500	UD/S 4.315.2
6197/14-500	UD/S 6.315.1
6197/14-101-500	UD/S 6.315.2
6197/15-500	UD/S 4.600.1
6197/15-101-500	UD/S 4.600.2
6197/52-500	
6197/52-101-500	
6197/53-500	
6197/53-101-500	

#### Top end strip with display

6351-825-101-500	PRO/K 1.3.1
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The update to a newer Firmware is carried out via commissioning interface/adapter 6149/21-500 (AI/Z1.1).

**Attention:** The device to be updated must be connected to the KNX bus.

#### Check of Firmware version

The current Firmware version of the device can be displayed at commissioning interface 6149/21-500 (AI/Z1.1) as follows:

- Connect the KNX device to be checked with the KNX bus.
- Use the enclosed ribbon cable to connect the commissioning interface 6149/21-500 (AI/Z1.1) with the 10-pole user interface of the flush-mounted bus coupler, the object range room temperature controller or the universal dimming actuator.

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## Firmware update

- For the update of device 6351-xxx-101, use the enclosed Busch-priOn® end strip to connect the commissioning interface with the 10-pole user interface at the bottom of the support frame.
- Switch commissioning interface 6149/21-500 (AI/Z1.1) on via the lateral sliding switch (manual mode).
- Select menu item "Status of device" with the arrow keys.
- Confirm the selection with "OK".  
The display now shows the device type and the Firmware version of the device (e.g. version 01.00).
- Exit the menu item via the "ESC" key.

### Firmware update

The latest Firmware for the respective device is available as download in the electronic catalogue.  
([www.busch-jaeger-katalog.de](http://www.busch-jaeger-katalog.de))

To install the latest Firmware on the device, proceed as follows:

- Create the following directory on the SD card of 6149/21-500 (AI/Z1.1): EMIBUPD.
- Copy the required Firmware into this directory, e.g. 6x20\_v1.upd.  
(If the Firmware is available as a zip-file, it needs to be unpacked first)
- Connect the KNX device to be updated with the KNX bus.
- Use the enclosed ribbon cable to connect the commissioning interface 6149/21-500 (AI/Z1.1) with the 10-pole user interface of the flush-mounted bus coupler, the object range temperature controller or the universal dimming actuator.
- For the update of device 6351-xxx-101, use the enclosed Busch-priOn end strip to connect the commissioning interface with the 10-pole user interface at the bottom of the support frame.
- Switch commissioning interface 6149/21-500 (AI/Z1.1) on via the lateral sliding switch (manual mode).
- Select menu item "Device update" with the arrow keys.
- Confirm the selection with "OK".
- The Firmware update starts. The progress is shown in the display via a bar graph.
- After the successful download, "OK" appears in the display.
- Exit the directory via the "ESC" key.

### Note:

**To update the device, adapter 6149/21-500 (AI/Z1.1) must be connected with the user interface of the device. This is carried out with the ribbon cable enclosed with the adapter.**

If the Firmware is downloaded via the update function of the PowerTool software, the update folder with the corresponding Firmware is automatically created on the SD card after the pid-file is downloaded.

The update is automatically executed before the download of the pid-file in the bus coupler.

Please ensure that the device to be programmed is connected to the KNX bus.

## Update for devices with a 5-pole interface:

The following devices can be updated:

### Push-button coupling unit:

6108/01-500

6108/02-500

6108/04-500

6108/05-500

### Presence detector:

6131/10-500

PM/A 1.x.1

6131/11-500

PM/A 2.x.1

The update to a newer Firmware is carried out via commissioning interface/adapter 6149/21-500 (AI/Z1.1).

**Attention:** The device to be updated must be connected to the KNX bus.

The necessary 5-pole cable is to be ordered separately from the sales department (Tel. +49 2351 956-1600).

## Check of Firmware version

The latest Firmware version of the device can be displayed on commissioning interface 6149/21-500 (AI/Z1.1) as described in the following:

- Connect the KNX device to be checked with the KNX bus.
- Connect commissioning interface 6149/21-500 (AI/Z1.1) with the user interface of the presence detector or push-button coupling unit via the 5-pole cable.
- Switch commissioning interface 6149/21-500 (AI/Z1.1) on via the lateral sliding switch (manual mode).
- Select menu item "Status of device" with the arrow keys.
- Confirm the selection with "OK".
- The display will now indicate the device type and the Firmware version of the device (e.g. Version 01.10).
- Exit the menu item via the "ESC" key.

## Firmware update

The latest Firmware for the respective device is available for downloading in the electronic catalogue.  
([www.busch-jaeger-katalog.de](http://www.busch-jaeger-katalog.de))

To install the latest Firmware on the device, proceed as follows:

- Create the following directory on the SD card of 6149/21-500 (AI/Z1.1): EMIBUPD.
- Copy the required Firmware into this directory, e.g. 6131\_vx.upd.  
(If the Firmware is available as a zip-file, it needs to be unpacked first)
- Connect the KNX device to be updated with the KNX bus.

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- Connect commissioning interface 6149/21-500 (AI/Z1.1) with the user interface of the presence detector or push-button coupling unit via the 5-pole cable.
- Switch commissioning interface 6149/21-500 (AI/Z1.1) on via the lateral sliding switch (manual mode).
- Select menu item "Device update" with the arrow keys.
- Confirm the selection with "OK".
- The Firmware update starts. The progress is shown in the display via a bar graph.
- After the successful download, "OK" appears in the display.
- Exit the directory via the "ESC" key.

### Note:

**To update the device, adapter 6149/21-500 (AI/Z1.1) must be connected with the user interface of the device. This is carried out with the 5-pole connecting cable which needs to be ordered separately.**

If the Firmware is downloaded via the update function of the PowerTool software, the update folder with the corresponding Firmware is automatically created on the SD card after the pid-file is downloaded.

The update is automatically executed before the download of the pid-file in the bus coupler.

Please ensure that the device to be programmed is connected to the KNX bus.

## 3.5" TFT colour display Busch-priOn

6344-xxx-500

PD/U 1.x.1

6344-xxx-101-500

PD/U 1.x.1

### Firmware update of the Busch-priOn® display

The latest Firmware for the respective device is available for downloading in the electronic catalogue.  
([www.busch-jaeger-katalog.de](http://www.busch-jaeger-katalog.de))

To install the latest Firmware for the Busch-priOn® display, proceed as follows:

Copy the "firmware.img" file to the main directory of the micro SD card.  
(If the Firmware is available as a zip-file, it needs to be unpacked first)

- Insert the micro SD card into the card slot of the Busch-priOn® display.
- Press the reset button on the Busch-priOn® display (see the manual for the display).
- The Firmware update starts,  
(The update process is shown in the Busch-priOn® display by means of corresponding text messages).
- The Firmware update is complete when the text "Please remove SD card" appears in the display.
- Remove the micro SD card from the card slot of the Busch-priOn® display.
- Press the reset push-button again.

After the reset the Busch-priOn® starts again with the normal user interface.

#### Note:

Please do **not** remove the micro SD card during the update procedure.

### Checking the Firmware version in the Busch-priOn® display

Inquiry via the menu of the Busch-priOn® display

- > System...
  - > Device settings ...
  - > Version information ...

Firmware : 0.1.7                      ( Example )