## USB → RS485

<table>
<thead>
<tr>
<th>Picture</th>
<th>Name</th>
<th>Description</th>
<th>Application</th>
<th>Product No.</th>
</tr>
</thead>
</table>
| ![Interface converter with screw-type terminal](image1) | K-114 | **Interface converter with screw-type terminal:**  
- Supply via USB for a connected device  
  \( U\text{-Out} = 11,8 \text{ VDC} / I\text{-Out}_{\text{max}} = 40 \text{ mA} \)  
- If several devices are connected, the power is supplied by an external power supply  
  \( 12–20 \text{ VDC} \)  
- Measuring the signal voltage applied  
  \( 0…12 \text{ VDC} \)  
  (Attention: V-IN not connected to screw-type terminals)  
- Measuring the power consumption of devices  
  \( 0…150 \text{ mA} \)  
- Visual status and configuration display (LED)  
- Total length cable: 1 m  
- Galvanic isolation (to USB, not to the external power supply)  
- Selective activation of echo, bias resistors or a terminating resistor  
- USB connection cable included in the scope of delivery | X-Line with cable | 309010.0074 |
| ![Interface converter with Fischer-plug/5-pin](image2) | K-114-A | **Interface converter with Fischer-plug/5-pin:**  
- Same specifications as the K-114  
- Total cable length: 1.75 m | DCX-16  
DCX-22  
DCX-25PVDF  
DCX-38  
LEO-Record  
LEX1  
ARC1/GSM2  
LPX, MPX, HPX | 309010.0075 |
| ![Interface converter with Binder socket series 680/5-pin](image3) | K-114-B | **Interface converter with Binder socket series 680/5-pin:**  
- Same specifications as the K-114  
- Total cable length: 1.75 m | X-Line  
LEO3  
dV22-PP | 309010.0076 |
| ![Interface converter with open cable head](image4) | K-114-V | **Interface converter with open cable head**  
- Same specifications as the K-114  
- Total cable length: 1.70 m  
- For mounting of an individual plug | Customised, ready to use X-Line | 309010.0132 |
| ![Interface converter with Binder plug series 712/5-pin](image5) | K-114-AC | **Interface converter with Binder plug series 712/5-pin:**  
- Same specifications as the K-114  
- Total cable length: 1.7 m | DCX-25 | 309010.0079 |
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</table>
| ![Image](image1) | K-114BT         | **Interface converter with screw-type terminal:**  
  - Bluetooth communication – RS485 / USB – RS485 (half-duplex)  
  - Supplying the connected devices  
    (U-Out = 15 VDC / I-Out_{max} = 150 mA)  
  - Measuring the signal voltage applied  
    (0...12 VDC)  
  - Measuring the power consumption of end users (0...150 mA)  
  - Visual status and configuration display (LED)  
  - Selective activation of echo, bias resistors or a terminating resistor  
  - USB connection cable included in the scope of delivery  
  - The battery is charged via the USB interface | X-Line with cable | 309010.0119 |
| ![Image](image2) | K-114BT-A       | **Interface converter with Fischer-plug/5-pin:**  
  - Same specifications as the K-114BT  
  - Total cable length: 0,75 m | DCX-16  
DCX-22  
DCX-25PVDF  
DCX-38  
LEX1-Record  
ARC1/GSM2  
LPX, MPX, HPX | 309010.0101 |
| ![Image](image3) | K-114BT-B       | **Interface converter with Binder socket series 680/5-pin:**  
  - Same specifications as the K-114BT  
  - Total cable length: 0,75 m | X-Line  
LEO3  
dV22-PP | 309010.0120 |
| ![Image](image4) | K-114BT-V       | **Interface converter with open cable head**  
  - Same specifications as the K-114BT  
  - Total cable length: 0,70 m  
  - For mounting of an individual plug | Customised, ready to use X-Line | 309010.0131 |

**Bluetooth / USB → RS485**
## USB → USB

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</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="USB Cable" /></td>
<td><strong>USB Cable (1 m)</strong></td>
<td>- Connections: USB-Type A / USB-Type B-Mini</td>
<td><strong>LE05</strong></td>
<td><strong>309010.0095</strong></td>
</tr>
<tr>
<td><img src="image" alt="USB Cable" /></td>
<td><strong>USB Cable (1 m)</strong></td>
<td>- Connections: USB-Type A / USB-Type B-Micro</td>
<td><strong>ADT1</strong></td>
<td><strong>309010.0134</strong></td>
</tr>
</tbody>
</table>

## USB → I²C

<table>
<thead>
<tr>
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<th>Product No.</th>
</tr>
</thead>
</table>
| ![K-404-T](image) | **Interface converter with 5-pin TO-socket (on glass feedthrough)** | - Supply via USB for a pressure transmitter (U-Out = 3,3 VDC / I-Out_{max} = 50 mA)  
- Internal Pull-up resistances to SDA and SCL, EOC not connected  
- Short-circuit proof, no galvanic isolation  
- Total cable length: 25 cm | **D-Line** (e.g. 4LD...9LD) | **309010.0103** |
# RS232 → RS485

<table>
<thead>
<tr>
<th>Picture</th>
<th>Name</th>
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<th>Application</th>
<th>Product No.</th>
</tr>
</thead>
</table>
| ![K-102](image) | K-102 | Converter with screw-type terminal:  
- Converts RS232 to RS485 half-duplex  
- RS232-connection: 9-pin D-Sub-plug (f)  
- RS485-connection: 3-pin screwable plug clamp [RS485 A, RS485 B, GND]  
- Automatic switching between send/receive  
- Baud rates: 9,6 kbit / 115 kbit | X-Line with cable | 309010.0004 |
| ![K-102I](image) | K-102I | Converter (isolated) with screw-type terminal:  
Same as K-102, but:  
- Galvanic isolation  
- Power plug for external transmitters [V+, GND] and supply of K-102I  
- Power supply (15 V) is required and is provided with the converter  
- RS232 extension cable [1,8 m] included in the scope of delivery | X-Line with cable | Europe: 309010.0012  
UK: 309010.0023 |
| ![K-103-A](image) | K-103-A | Converter cable with Fischer socket series 103:  
Same as K-102, but with cable (length: 2 m) and Fischer socket Series 103 | DCX-16  
DCX-22  
DCX-25PVDF  
DCX-38  
LEO-Record  
LEX1  
ARC1/GSM2  
LPX, MPX, HPX | 309010.0002 |
| ![K-107](image) | K-107 | Converter with Binder socket series 680/5-pin:  
Same as K-102, but includes:  
- Transmitter supply from integrated 9 Volt battery or external power supply  
- RS232-connection: 9-pin D-Sub-plug (f)  
- RS485-connection: Binder-plug Series 723 5-pin (f)  
- Total cable length: 0,75 m  
- Power supply (15 V) is provided with the converter | X-Line  
LEO3  
dV22-PP | Europe: 309010.0003  
UK: 309010.0020 |

f = female  
m = male
<table>
<thead>
<tr>
<th>Cable option</th>
<th>Description</th>
<th>Accessories for</th>
<th>Product No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Cable adapter (0,4 m) Binder plug series 680/5-Pol (m) to strand clips</strong>&lt;br&gt;· Suitable for transmitters with cable output e.g. 36XW</td>
<td>K-114BT-B, K-114-B, K-107</td>
<td>309010.0014</td>
</tr>
<tr>
<td>3</td>
<td><strong>Cable adapter (0,4 m) Binder plug series 680/5-Pol (m) to 6-pin Molex socket (f)</strong></td>
<td>K-114BT-B, K-114-B, K-107</td>
<td>309010.0016</td>
</tr>
<tr>
<td>4</td>
<td><strong>Cable adapter (1,5 m) cable to 2-pin socket</strong>&lt;br&gt;· Suitable for LEO1, LEO2 and ECO2</td>
<td>K-114BT, K-114, K-102, K-102I</td>
<td>309010.0017</td>
</tr>
<tr>
<td>5</td>
<td><strong>Cable adapter (0,4 m) 5-pin Binder plug series 680/5-Pol (m) to 8-pin Binder cable socket series 423 (f)</strong>&lt;br&gt;· Suitable for dV2-PS and Castello</td>
<td>K-114BT-B, K-114-B, K-107</td>
<td>309010.0041</td>
</tr>
<tr>
<td>6</td>
<td><strong>Cable adapter (0,4 m) 5-pin Fischer socket series 103 to 5-pin M12</strong>&lt;br&gt;· Suitable for DCX-18</td>
<td>K-114BT-A, K-114-A, K-103-A</td>
<td>309010.0066</td>
</tr>
<tr>
<td>7</td>
<td><strong>Adapter (0,4 m) from Binder plug series 680/5-Pol (m) to Fischer plug series 103/5-pin (m)</strong>&lt;br&gt;· Suitable for DCX, LEO-Record, LEX1</td>
<td>K-114BT-B, K-114-B, K-107</td>
<td>309010.0082</td>
</tr>
<tr>
<td>8</td>
<td><strong>Cable adapter (0,4 m) from Binder plug series 680/5-Pol (m) to 6-pin MIL C-26482</strong>&lt;br&gt;· Suitable for transmitters with Souriau plug e.g. 33X</td>
<td>K-114BT-B, K-114-B, K-107</td>
<td>309010.0123</td>
</tr>
</tbody>
</table>

*f = female | m = male*
## Converter Accessories

<table>
<thead>
<tr>
<th>Picture</th>
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<th>Description</th>
<th>Accessories for</th>
<th>Product No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Cable option 9" /></td>
<td>Cable adapter (0,4 m) from Binder plug series 680/5-Pol (m) to Binder M12/A coded</td>
<td>- Suitable for X-Line transmitter with M12 plug</td>
<td>K-114B, K-114-A, K-114-B, K-102I, K-107</td>
<td>309010.0127</td>
</tr>
<tr>
<td><img src="image" alt="Supply Unit Europe" /></td>
<td>Supply unit 15 V – Europe</td>
<td>- DC-Socket&lt;br&gt;- Input: 230 VAC&lt;br&gt;- Output: 15 VDC, 360 mA&lt;br&gt;- Total cable length: 1,8 m</td>
<td>K-114, K-114-A, K-114-B, K-102I, K-107</td>
<td>309010.0025</td>
</tr>
<tr>
<td><img src="image" alt="Car Adapter Cable" /></td>
<td>Car adapter cable</td>
<td>- Total cable length: 2 m</td>
<td>K-114, K-114-A, K-114-B, K-102I, K-107</td>
<td>309010.0051</td>
</tr>
<tr>
<td><img src="image" alt="USB Cable" /></td>
<td>USB Cable (1 m)</td>
<td>- Connections: USB-Type A / USB-Type B-Mini</td>
<td>K-114BT, K-114BT-A, K-114BT-B, K-114, K-114-A, K-114-B, K-114-AC</td>
<td>309010.0095</td>
</tr>
</tbody>
</table>
The following interface converters and options are no longer required for the current pressure measuring devices. In order to continue to support the operation of older pressure measuring instruments from KELLER, they remain available.

<table>
<thead>
<tr>
<th>Picture</th>
<th>Name</th>
<th>Description</th>
<th>Accessories for / Application (KELLER devices)</th>
<th>Product No.</th>
</tr>
</thead>
</table>
|         |      | **USB → RS485** | DCX-18-ECO | EU: 309010.0077  
UK: 309010.0093 |
| ![Image](image1) | K-114-M | **Interface converter with M12 socket/5-pin:**  
- Same specifications as the K-114  
- Total cable length: 2,3 m  
- Supply/charging via USB  
(U-Out = 5 V / I-Out_max = 100 mA)  
(Fast charging from external power supply unit, 12–20 VDC) included in the scope of delivery |         |         |
| ![Image](image2) | K-114-C | **Interface converter with Binder plug series 712/2-pin:**  
- Same specifications as the K-114  
- Total cable length: 1,75 m | Old device versions:  
Mano Gauge  
Mano Record  
LP, MP, HP | 309010.0078 |
| ![Image](image3) | K-101 | **Converter cable (2 m) with 2-pin Binder-connector Series 712** | Intelligent Manometers (IM)  
and Calibrators | 309010.0001 |

**Converter Accessories**

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</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Image" /></td>
<td>Handheld Adapter</td>
<td>The Handheld Adapter is required to connect a handheld (Palm) with an interface converter.</td>
<td>309010.0015</td>
</tr>
</tbody>
</table>

f = female  
m = male
<table>
<thead>
<tr>
<th>Plug Assignment of the interface converters – front view / Plug Assignment of the cable options – front view</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>K-114-A</strong>&lt;br&gt;K-114BT-A</td>
</tr>
<tr>
<td><img src="image1.png" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>K-114-B</strong>&lt;br&gt;K-114BT-B</td>
</tr>
<tr>
<td><img src="image2.png" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>K-114-AC</strong></td>
</tr>
<tr>
<td><img src="image3.png" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>Power supply unit socket K-114</strong></td>
</tr>
<tr>
<td><img src="image4.png" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>K-404-T</strong>&lt;br&gt;TO-5 (f)</td>
</tr>
<tr>
<td><img src="image5.png" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>Strand clips</strong></td>
</tr>
<tr>
<td>black</td>
</tr>
<tr>
<td>white</td>
</tr>
<tr>
<td>yellow</td>
</tr>
<tr>
<td>blue</td>
</tr>
<tr>
<td>red</td>
</tr>
</tbody>
</table>

*f = female  |  m = male  |  n.c. = not connected*
Plug Assignment of the cable options – front view

**Cable option 3**

Binder Series 723/5-pin (m)

3: +Vcc
4: RS485-A
5: RS485-B

Molex socket 6-pin (f)

2: V-IN
1: GND

**Cable option 5**

Binder Series 723/5-pin (m)

3: +Vcc
4: RS485-A
5: RS485-B

Binder Series 423/8-pin (f)

2: V-IN
1: n.c.
8: GND
6: n.c.

**Cable option 7**

Binder Series 723/5-pin (m)

3: +Vcc
4: RS485-A
5: RS485-B

Fischer Series 103/5-pin (m)

2: V-IN
1: GND

**Cable option 8**

Binder Series 723/5-pin (m)

3: +Vcc
4: RS485-A
5: RS485-B

MIL C-26482 (f)

RS485-B
V-IN
GND

**Cable option 9**

Binder Series 723/5-pin (m)

3: +Vcc
4: RS485-A
5: RS485-B

M12/5-pin (f)

2: V-IN
1: GND

f = female  |  m = male  |  n.c. = not connected