## Interface Converter

**Communication RS232 — RS485**

The K-10X series interface converters are recommended for use with KELLER products and enable communication between a device and computer via an RS232 interface, with communication established with connected devices with RS485 bus interface (half-duplex).

### Description

For the K-102 and K-103 A converters, the connected devices must have their own power supply (e.g. battery or mains). The K-102 I converter must be powered by the adapter supplied with it, which can also power connected devices. Devices connected to the K-107 converter are powered by the integrated battery or an external power adapter.

### K-102 Properties
- Screw terminal connection (3 pole)
- No termination resistor
- Converter powered via DTR/RTS in the RS232 interface
- Not possible to power connected devices via the converter

### K-102 I Properties
- Screw terminal connection (5 pole)
- Termination resistor possible (connect via screw terminal RS485 A + B)
- Galvanic isolation of signal lines RS485 A + B
- Status display: green LED
- Converter and connected devices powered by 15 VDC adapter (included in scope of delivery)

### K-103 A Properties
- Fischer plug series 103/5 pole with 2 m cable
- No termination resistor
- Converter powered via DTR/RTS in the RS232 interface
- Status display: green LED
- Converter and connected devices powered by 15 VDC adapter (included in scope of delivery)

### K-107 Properties
- Binder plug series 680/5 pole, cable length 0.75 m
- No termination resistor
- Power adapter (15 VDC and battery 9 VDC/ type 6 LR 61, included in scope of delivery)
- Connected devices powered by 9 V battery or adapter (automatically switched on during communication). Converter electronics powered via DTR/RTS in the RS232 interface

### Technical Specifications

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<tr>
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<tbody>
<tr>
<td>Interface parameters</td>
<td>8 data bits, 1 start bit, 1 stop bit, no parity, half-duplex, echo is generated</td>
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<tr>
<td>Baud rate</td>
<td>9600 baud, 115200 baud (automatic detection)</td>
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<tr>
<td>RS485 bus devices</td>
<td>up to 128 bus devices (1/4 unit load)</td>
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<tr>
<td>RS485 driver</td>
<td>„slew-rate limited“, fail-safe</td>
<td>„slew-rate limited“, fail-safe</td>
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<td>„slew-rate limited“, fail-safe</td>
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<tr>
<td>Storage/operating temperature</td>
<td>-10...50 °C</td>
<td>-10...50 °C</td>
<td>-10...50 °C</td>
<td>-10...50 °C</td>
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<tr>
<td>Protection</td>
<td>IP 40</td>
<td>IP 40</td>
<td>IP 40</td>
<td>IP 40</td>
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<tr>
<td>Plug-in adapter (optional)</td>
<td>15 VDC / 360 mA (1,8 m cable)</td>
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<tr>
<td>Dimensions (H x W x D)</td>
<td>55 x 31 x 15 mm</td>
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<tr>
<td></td>
<td>80 x 42 x 21 mm</td>
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<tr>
<td></td>
<td>55 x 31 x 15 mm</td>
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<tr>
<td></td>
<td>60 x 105 x 22 mm</td>
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Product overview

The various versions of the K-114 interface converter use different, product-specific interface plugs. The product overview shows the compatibility between the product and the interface converters. The converter can also be expanded using additional cable options. For a complete product overview and a detailed technical description of the interface converter and operating instructions, visit www.keller-druck.com.

RS232

**K-102**
- Product no. 309010.0004
- X-Line with cable

**K-102 I**
- Product no. 309010.0012 EU
- 309010.0023 UK
- 309010.0024 US
- X-Line with cable

**K-103 A**
- Product no. 309010.0002
- DCX-16
- DCX-22
- DCX-25 PVDF
- DCX-38
- LEO Record
- LEX 1
- ARC-1/05M-2
- LPX, MPX, HPX

**K-107**
- Product no. 309010.0003 EU
- 309010.0020 UK
- 309010.0021 US
- X-Line with Binder plug
- LEO 3
- dV-22 PP

Pin assignment of the converters

**K-102**
- Plug-in screw terminal
- MC 1,5 / 3-ST-3,81

**K-102 I**
- Plug-in screw terminal
- MC 1,5 / 5-ST-3,81

**K-103 A**
- Fischer plug-in connector
- S 103 A05A-130 (male)

**K-107**
- Binder cable connector
- Serie 723 (female) 5-Pol

Scope of delivery

The product is supplied in a box, and includes:

- **K-102**
  - Software CD
  - Converter K-102

- **K-102 I**
  - Software CD
  - Converter K-102 I
  - Cable D-SUB 1,8 m / 9 pole
  - 15 VDC power adapter

- **K-103 A**
  - Software CD
  - Converter K-103A

- **K-107**
  - Software CD
  - Converter K-107
  - Battery 9 VDC / type 6LR61
  - 15 VDC power adapter

Accessories

Compatible adapter cables available e.g to K-107:

- Cable option 1
  - Binder plug to strand clips

- Cable option 3
  - Binder plug to 6-pin Molex socket