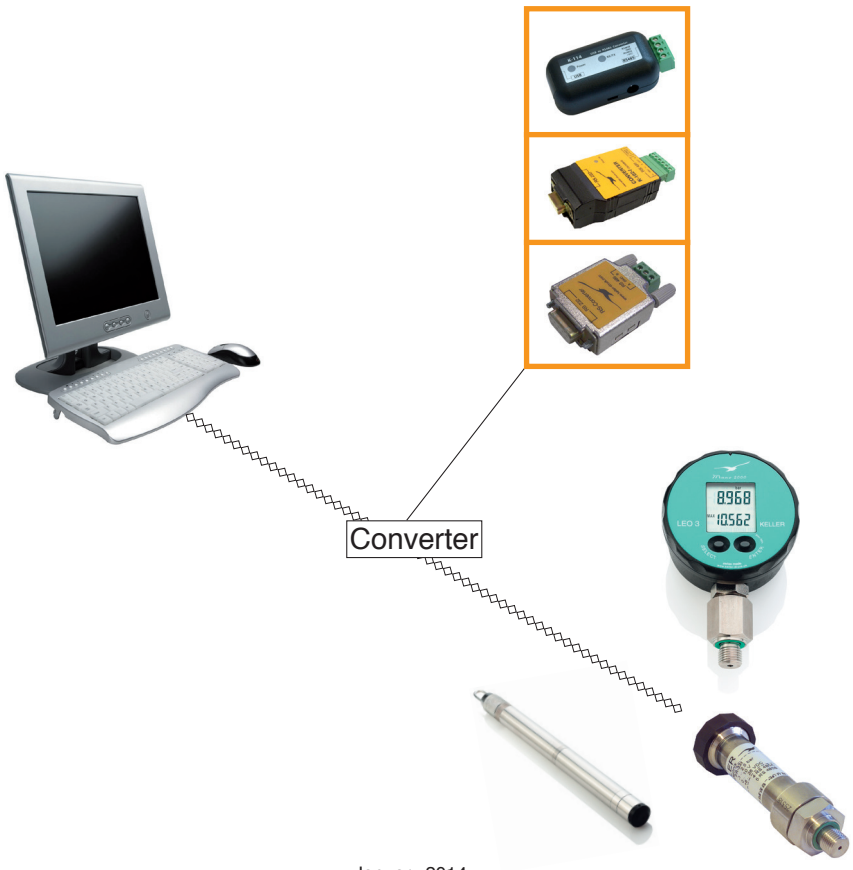


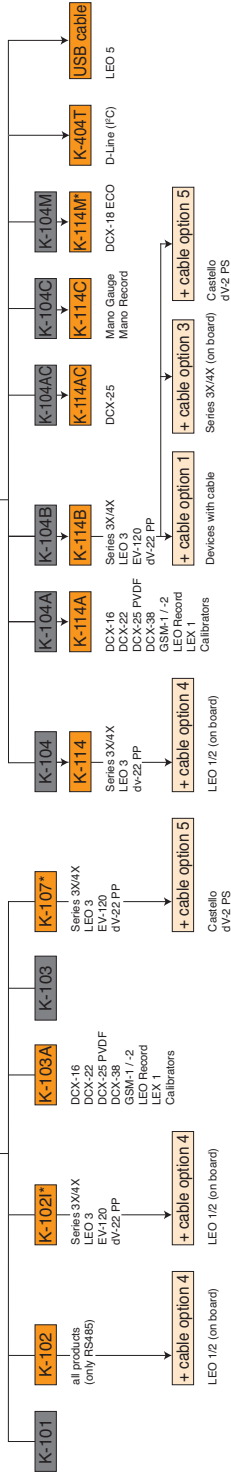


# Interface Converter Overview

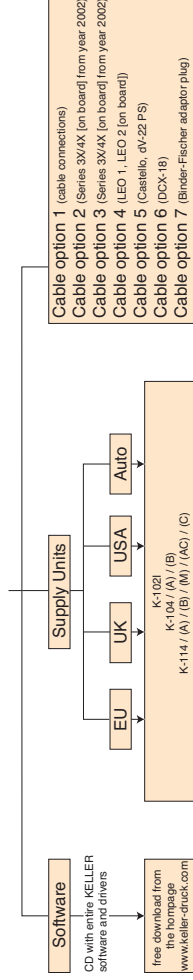


## RS232

## USB







## Accessories



■ Product was replaced or is obsolete \* Supply Unit included in delivery on board = Connector plug inside the device or on the PCB






Name	Picture	Description	Application (KELLER-Devices)	Product No.
<b>RS232 --&gt; RS485</b>				
<b>K-102</b>	 f	<b>Converter with screw-type terminal:</b> <ul style="list-style-type: none"> <li>• converts RS232 to RS485 half-duplex</li> <li>• RS232-connection: 9-pin D-Sub-plug (f)</li> <li>• RS485-connection: 3-pin screwable plug clamp (RS485 A, RS485 B, GND)</li> <li>• automatic switching between send/receive</li> <li>• baud rates: 9,6 kbit / 115 kbit</li> </ul>	Series 3X/4X, LEO 1/2/3, dV-2 PS	309010.0004
<b>K-102I</b>	 f	<b>Converter (isolated) with screw-type terminal:</b> Same as K-102, but: <ul style="list-style-type: none"> <li>• galvanic isolation</li> <li>• power plug for external transmitters (V+, GND) and supply of K-102I</li> <li>• power supply (15 V) is required and is provided with the converter</li> <li>• RS232 extension cable (1,8 m) included in the scope of delivery</li> </ul>	Series 3X/4X, LEO 3, dV-2 PS	Europe: 309010.0012  UK: 309010.0023  USA: 309010.0024
<b>K-107</b>	 f f	<b>Converter set:</b> Same as K-102, but includes: <ul style="list-style-type: none"> <li>• transmitter supply from integrated 9 Volt battery or external power supply</li> <li>• RS232-connection: 9-pin D-Sub-plug (f)</li> <li>• RS485-connection: Binder-plug Series 723 5-pin (f)</li> <li>• power supply (15 V) is provided with the converter</li> </ul>	Series 3X/4X, LEO 3, dV-22 PP, dV-2 PS	Europe: 309010.0003  UK: 309010.0020  USA: 309010.0021
<b>K-103A</b>	 m f	<b>Converter cable with Fischer socket Series 103:</b> Same as K-102, but with cable (length: 2 m) and Fischer socket Series 103	DCX-16, DCX-22, LEO Record, LEX 1 GSM-1 / -2	309010.0002





f = female

m = male








Name	Picture	Description	Application (KELLER- Devices)	Product No.
<b>USB --&gt; RS485</b>				
K-114		<p><b>Interface converter with screw-type terminal:</b></p> <ul style="list-style-type: none"> <li>• Supply via USB for one connected final consumer (U-Out = 11,8 VDC / I-Out<sub>max</sub> = 40 mA) (Supply is provided via an external power supply unit (12–20 VDC) if more than one final consumer is connected)</li> <li>• Screw-type terminal with connection for: +Vcc / GND / RS485A / RS485B</li> <li>• Visual status and configuration display (LED)</li> <li>• Total length: 1 m</li> <li>• galvanic isolation</li> <li>• Software CD and USB connection cable included in the scope of delivery</li> </ul>	Series 3X/4X	309010.0074
K-114A		<p><b>Interface converter with Fischer-plug/5-pin:</b></p> <ul style="list-style-type: none"> <li>• Supply via USB for one connected final consumer (U-Out = 11,8 VDC / I-Out<sub>max</sub> = 40 mA)</li> <li>• Visual status and configuration display (LED)</li> <li>• galvanic isolation</li> <li>• Total length: 1,7 m</li> <li>• Software CD and USB connection cable included in the scope of delivery</li> </ul>	DCX-16, DCX-22, DCX-25 PVDF, DCX-38, LEO Record, LEX 1, GSM-2, Calibrators	309010.0075
K-114B		<p><b>Interface converter with Binder socket 680/5-pin:</b></p> <ul style="list-style-type: none"> <li>• Supply via USB for one connected final consumer (U-Out = 11,8 VDC / I-Out<sub>max</sub> = 40 mA)</li> <li>• Measuring channel: voltage input 0...12 VDC</li> <li>• Visual status and configuration display (LED)</li> <li>• galvanic isolation</li> <li>• Total length: 1,7 m</li> <li>• Software CD and USB connection cable included in the scope of delivery</li> </ul>	Series 3X, Series 4X, LEO 3, EV-120	309010.0076



Name	Picture	Description	Application (KELLER- Devices)	Product No.
<b>USB --&gt; RS485</b>				
K-114M		<b>Interface converter with M12 socket/ 5-pin:</b> <ul style="list-style-type: none"> <li>• Supply/charging via USB (U-Out = 5 V / I-Out<sub>max</sub> = 100 mA) (Fast charging from external power supply unit, 12–20 VDC)</li> <li>• Visual status and configuration display (LED)</li> <li>• galvanic isolation</li> <li>• Total length: 2,3 m</li> <li>• Software CD, power supply and USB connection cable included in the scope of delivery</li> </ul>	DCX-18	EU: 309010.0077  UK: 309010.0093  USA: 309010.0094
K-114AC		<b>Interface converter with Binder socket 712/5-pin:</b> <ul style="list-style-type: none"> <li>• Supply via USB for one connected final consumer (U-Out = 11,8 VDC / I-Out<sub>max</sub> = 40 mA)</li> <li>• Visual status and configuration display (LED)</li> <li>• galvanic isolation</li> <li>• Total length: 1,75 m</li> <li>• Software CD and USB connection cable included in the scope of delivery</li> </ul>	DCX-25	309010.0079
<b>USB --&gt; TTL</b>				
K-114C		<b>Interface converter with Binder socket 712/2-pin:</b> <ul style="list-style-type: none"> <li>• Visual status and configuration display (LED)</li> <li>• galvanic isolation</li> <li>• Total length: 1,75 m</li> <li>• Software CD and USB connection cable included in the scope of delivery</li> </ul>	Old device versions • Mano Gauge • Mano Rec • Kalibratoren	309010.0078
<b>USB --&gt; I<sup>2</sup>C</b>				
K-404T		<b>Interface converter with 5-pin TO-socket (on glass feedthrough)</b> <ul style="list-style-type: none"> <li>• Supply via USB for one connected final consumer (U-Out = 3,3 VDC / I-Out<sub>max</sub> = 50 mA)</li> <li>• Internal Pull-up resistances to SDA and SCL, EOC not connected</li> <li>• Short-circuit proof, no galvanic isolation</li> <li>• Total length: 25 cm</li> <li>• Software CD included in the scope of delivery</li> </ul>	D-Line	309010.0103



Name	Picture	Description	Accessories for	Product No.
<b>Converter Accessories</b>				
<b>Cable option 1</b>	 m	<b>Cable adapter (0,3 m) Binder plug Series 723 (m) to strand clips</b> • Transmitters with cable output can be connected	K-114B, K-107	309010.0014
<b>Cable option 3</b>	 f m	<b>Cable adapter (0,3 m) Binder plug Series 723 (m) to 6-pin Molex socket (f)</b>	K-114B, K-107	309010.0016
<b>Cable option 4</b>	 f	<b>Cable adapter (1,5 m) cable to 2-pin socket</b> • connection to LEO 1 and LEO 2	K-114 K-102, K-102I	309010.0017
<b>Cable option 5</b>	 f m	<b>Cable adapter 5-pin Binder plug Series 723 (m) to 8-pin Binder cable socket Series 423 (f)</b> • suited for dV-2 PS and Castello	K-114B, K-107	309010.0041
<b>Cable option 6</b>	 f f	<b>Cable adapter (0,5 m) 5-pin M12 to 5-pin Fischer socket Series 103</b> • connection between K-103A and DCX-18	K-114A, K-103A	309010.0066

f = female

m = male



Name	Picture	Description	Accessories for	Product No.
<b>Converter Accessories</b>				
Supply Unit Europe		<b>Supply unit 15 V – Europe</b> <ul style="list-style-type: none"> <li>• DC-Socket</li> <li>• Input: 230 VAC</li> <li>• Output: 15 VDC, 360 mA</li> <li>• Cable length 1,8 m</li> </ul>	K-114, K-114B, K-114M K-102I, K-107	309010.0025
Supply Unit UK		<b>Supply unit 15 V – UK</b> <ul style="list-style-type: none"> <li>• DC-Socket</li> <li>• Input: 230 VAC</li> <li>• Output: 15 VDC, 360 mA</li> <li>• Cable length 2 m</li> </ul>	K-114, K-114B, K-114M K-102I, K-107	309010.0087
Supply Unit USA		<b>Supply unit 15 V – USA</b> <ul style="list-style-type: none"> <li>• DC-Socket</li> <li>• Input: 120 VAC</li> <li>• Output: 15 VDC, 360 mA</li> <li>• Cable length 2 m</li> </ul>	K-114, K-114B, K-114M K-102I, K-107	309010.0086
Car Adapter Cable		<b>Car adapter cable</b> <ul style="list-style-type: none"> <li>• Cable length 2 m</li> </ul>	K-102I, K-107, K-114	309010.0051
Software CD		<b>KELLER Software CD</b> includes all KELLER-Softwares and USB-driver for K-114/K-104  Download for free: <a href="http://www.keller-druck.com">www.keller-druck.com</a>		750505.0001
USB Cable		<b>USB Cable (1 m)</b> <ul style="list-style-type: none"> <li>• Connection: A Mini/B</li> </ul>	K114, K114A, K114B, K114AC, K114M, LEO 5	309010.0095






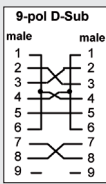
The following interface converters and options are no longer required or have been superseded by new products. To ensure compatibility with older KELLER products, some of them can still be supplied:

Name	Picture	Description	Application (KELLER-Devices)	Product No.
<b>RS232 --&gt; TTL</b>				
K-101		Converter cable (2 m) with 2-pin Binder-connector Series 712	Intelligent Manometers (IM) and Calibrators	309010.0001
<b>RS232 --&gt; RS485</b>				
K-103		Converter cable with Binder socket Series 723	DC-22 G (ø 46 mm)	309010.0054
<b>USB --&gt; RS485</b>				
K-104		Converter with screw-type terminal	replaced by K-114	309010.0008
K-104A		Converter cable with Fischer plug Series 103	replaced by K-114A	309010.0009
K-104B		Converter cable with Binder socket Series 723	replaced by K-114B	309010.0010
K-104M		Converter cable with M12 plug	replaced by K-114M	309010.0050
USB Cable A to B		USB cable connection	exclusively for K-104 K-104M	309010.0052

f = female  
m = male





Name	Picture	Description	Accessories for	Product No.
<b>Converter Accessories</b>				
<b>Cable option 2</b>	 f m	<b>Cable adapter Binder plug Series 723 (m) to 5-pin Leoco socket</b>	K-104B, K-107	309010.0015
<b>Cable option 7</b>		<b>Adapter from Binder plug 723/5-pin (m) to Fischer plug 103/5-pin (m)</b>	K-114B, K-104B	309010.0082
<b>Handheld Adapter</b>		<b>Handheld Adapter:</b> Is required to connect a handheld (Palm) with an interface converter.	 <b>9-pol D-Sub</b> male      male	K-103A, K-107

f = female

m = male

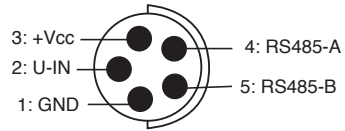


## Plug Assignment of the interface converters

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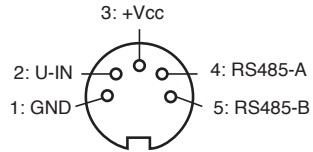
### K-114A

Fischer Series 103/5-pin (m)



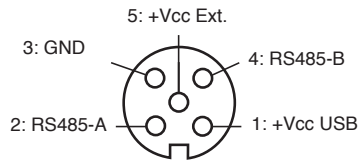
### K-114B

Binder Series 680/5-pin (f)



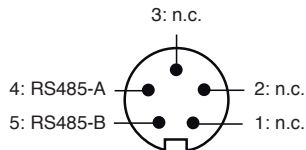
### K-114M / K-104M

M12/5-pin (f)



### K-114AC

Binder 712/5-pin (m)



### K-114C

Binder 712/2-pin (m)

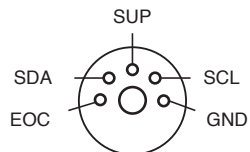


### Power supply unit socket K-114



### K-404T

TO-5 (f)



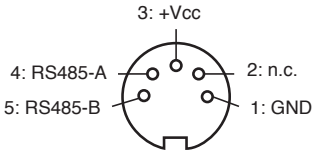
f = female  
m = male  
n.c. = not connected



## Plug Assignment of the cabel options

### Cabel option 1

Binder Series 723/5-pin (m)

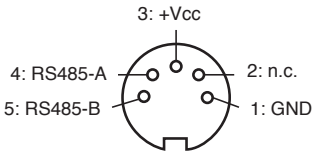


Strand clips

black	bk:	+Vcc
white	wh:	GND
yellow	ye:	RS485-B
blue	bl:	RS485-A
red	rd:	U-IN

### Cabel option 3

Binder Series 723/5-pin (m)

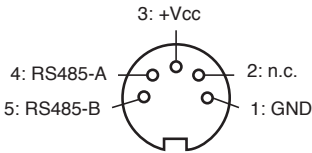


Molex socket 6-pin (f)

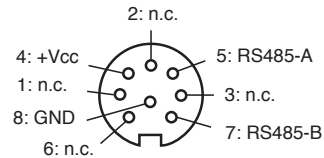
3: n.c.	2: +Vcc	1: RS485-B
6: n.c.	5: GND	4: RS485-A

### Cabel option 5

Binder Series 723/5-pin (m)

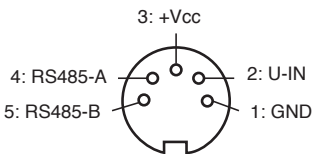


Binder Series 423/8-pin (f)

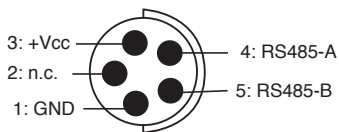


### Cabel option 7

Binder Series 723/5-pin (m)



Fischer Series 103/5-pin (m)



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

