




# Interface Converter Overview

Version 0.9 – July 2009

Name:	Photo:	Description:	Application (KELLER-Devices):	Product No.
<b>RS 232 ⇌ TTL</b>				
<b>K-101</b>		<b>Converter cable with 2-pole connector:</b> Interface converter RS232 to TTL-Level	Intelligent Manometers und Calibrators	309010.0001
<b>RS232 ⇌ RS485</b>				
<b>K-102</b>		<b>Converter with plug clamp:</b> <ul style="list-style-type: none"> <li>converts RS232 to RS485 half-duplex</li> <li>RS 232-connection: 9-pole D-Sub-plug</li> <li>RS 485-connection: 3-pole screwable plug clamp (RS485 A, RS485 B, GND)</li> <li>automatic switching between send/receive</li> <li>supply through RS232-Interface</li> <li>baud rates: 9,6kbit / 115kbit</li> </ul>	Series 33-39, LEO 1, LEO 2, LEO 3, dV2-PS	309010.0004
<b>K-102I</b>		<b>Converter (isolated) with plug clamp:</b> like K-102, but: <ul style="list-style-type: none"> <li>supply connection for transmitter (V+, GND):</li> <li>galvanic isolation of communication line</li> </ul> supply unit (15V/200mA) is necessary and included in delivery ⇌ see Product No.	Series 33-39, LEO 1, LEO 2, LEO 3, dV2-PS	Europe: 309010.0012  UK: 309010.0023  USA: 309010.0024
<b>K-107</b> (substitutes K-106)		<b>Converter set</b> like K-102, but includes: <ul style="list-style-type: none"> <li>transmitter supply with integrated 9 Volt Battery or supply unit</li> <li>Binder- and D-Sub 9-pole (RS232) connection</li> <li>CD with Read30/ Prog30 software</li> <li>supply unit for European, UK or American sockets</li> <li>⇌ see Product No.</li> </ul>	Series 33-39, LEO 1, LEO 2, LEO 3, dV-22 PP dV-2 PS	Europe: 309010.0003  UK: 309010.0020  USA: 309010.0021
<b>RS232 ⇌ RS485 (for autonomous data collectors)</b>				
<b>K-103</b>		<b>Converter cable with Binder socket:</b> Like K-102, but with cable (length: 2m) and Binder socket instead of plug clamp.	DC-22 G (Ø 46mm)	
<b>K-103A</b>		<b>Converter cable with Fischer plug:</b> Like K-102, but with cable (length: 2m) and Fischer plug instead of plug clamp.	DCX-22, DCX-22 AA, DCX-22 VG, DCX-22 SG, LEO Record, LEX 1	309010.0002



Name:	Photo:	Description:	Application (KELLER-Devices):	Product No.
<b>USB → RS485</b>				
<b>K-104</b>		<b>Converter with plug clamp:</b> <ul style="list-style-type: none"> <li>Supply through USB for 1 transmitter (<math>U_{out} = 10V</math> / <math>I_{max} = 20mA</math>)</li> <li>DC-socket for external supply (12 – 20 Volt DC), if more connected transmitters needed</li> <li>galvanic isolation from supply and communication</li> <li>screwable plug clamp with connection for RS485 (A, B) and supply (+V, GND)</li> <li>LED for indication of communication activity</li> <li>cable (length: 1,8m) for connection to USB-Interface included in delivery</li> <li>driver software also included in delivery. On the internet: <a href="http://www.ftdichip.com/Drivers/VCP.htm">http://www.ftdichip.com/Drivers/VCP.htm</a></li> </ul>	Series 33-39, LEO 1, LEO 2, LEO 3, dV2-PS	309010.0008
<b>K-104B</b>		<b>Converter cable with Binder socket:</b> like K-104, but instead of plug clamp with cable (2,1m) and Binder socket with RS485A/B and supply: 1: GND 2: 3: +Vcc 4: RS485A 5: RS485B  Transmitter supply for direct connection to a series 33-39 transmitter (like K-107)  The driver software is included in delivery. On the internet: <a href="http://www.ftdichip.com/Drivers/VCP.htm">http://www.ftdichip.com/Drivers/VCP.htm</a>	Series 33-39, LEO 3, dV-22 PP dV-2 PS	309010.0010
<b>USB → RS485 (for autonomous data collectors)</b>				
<b>K-104A</b>		<b>Converter cable with Fischer plug:</b> <ul style="list-style-type: none"> <li>Fischer plug for connection of RS485A/B (without supply)</li> <li>cable length: 1,8m</li> <li>galvanic isolation of communication</li> <li>LED for indication of communication activity</li> <li>driver software also included in delivery. On the internet: <a href="http://www.ftdichip.com/Drivers/VCP.htm">http://www.ftdichip.com/Drivers/VCP.htm</a></li> </ul>	DCX-22, DCX-22 AA, DCX-22 VG, DCX-22 SG, LEO Record, LEX 1	309010.0009

Converter Accessories				
Name:	Photo:	Description:	Accessories for:	Product No.
Cable option 1		Cable adapter Binder plug to cord clamp (for connection to series 33-39)	K-104B, K-107	309010.0014
Cable option 2		Cable adapter Binder plug to 5-pole Leoco-Socket (for connection to Leo 3 and elderly versions of series 33-39 -> before year 2002)  With tool for removing socket.	K-104B, K-107	309010.0015
Cable option 3		Cable adapter Binder plug to 6-pole Molex socket (for connection to actual series 33-39 transmitter)	K-104B, K-107	309010.0016
Cable option 4		Cable adapter cord to 2-pole socket (for connection to LEO 1 and LEO 2)	K-102, K-102I, K-104	309010.0017
Cable option 5		Cable adapter 5-pol Binder to 8-pol Binder (for connection to dV-2 PS, dV-2 PP and Castello)  Pin assignment 8-pole: 1: -      5: RS 485 A 2: -      6: - 3: -      7: RS 485 B 4: +Vcc   8: GND	K-104B, K-107	309010.0041
Handheld Adapter		<b>Handheld Adapter:</b>  Required to connect a handheld (Palm, Pocket PC) with a interface converter.  <b>9-pol D-Sub</b> male      male <pre> 1  ---  1 2  ---  2 3  ---  3 4  ---  4 5  ---  5 6  ---  6 7  ---  7 8  ---  8 9  ---  9 </pre>	K-103A, K-107	309010.0028
Supply unit Europe		<b>Supply unit 15V - Europe</b>  <ul style="list-style-type: none"> <li>for connection to DC-Socket</li> <li>Input: 230VAC</li> <li>Output: 15VDC, 210mA</li> </ul>	K-102I, K-104, K-104B, K-107	309010.0025
Supply unit UK		<b>Supply unit 15V - UK</b>  <ul style="list-style-type: none"> <li>for connection to DC-Socket</li> <li>Input: 230VAC</li> <li>Output: 15VDC, 150mA</li> </ul>	K-102I, K-104, K-104B, K-107	309010.0026
Supply unit USA		<b>Supply unit 15V – USA</b>  <ul style="list-style-type: none"> <li>for connection to DC-Socket</li> <li>Input: 120VAC</li> <li>Output: 15VDC, 210mA</li> </ul>	K-102I, K-104, K-104B, K-107	309010.0027