

DK5232 / DK5485 / DK3000 / DK4000

Interface Converter RS232↔USB and RS485↔USB



DK5232 / DK5485 ▪ USB, Type A
▪ open connection wires



DK3000 / DK4000 ▪ USB, Type A
▪ SUB-D connector

Order no: **Model:**

DK5232 RS232↔USB,
 1.7 m cable,
 open connection wires

DK5485 RS485↔USB,
 1.7 m cable,
 open connection wires

Order no: **Model:**

DK3000 RS232↔USB,
 1.7 m cable,
 9-pin Sub-D connector

DK4000 RS485↔USB,
 1.7 m cable,
 9-pin Sub-D connector

Pin Assignment Sensortherm Standard Cable

Cable colors Interface converter RS232↔USB (TxD / RxD) RS485↔USB (A ⁻ / B ⁺)	Pin Sub- D		Cable colors Sensortherm standard cables	
			Metis M3 / H3 (12 pin connector RS232 or RS485)	Metis M3 / H3 (17 pin connector only RS485)
Orange (B ⁺ / TxD)	3	↔	Grey-pink and black(B ⁺ / RxD)	White-yellow and white-grey (B ⁺)
Yellow (A ⁻ / RxD)	2	↔	Red-blue and violet (A ⁻ / TxD)	Brown-yellow and brown-grey (A ⁻)
Black (GND)	5	↔	Red (GND)	White-pink and brown-pink (DGND)



Note: This table is for a point-to-point connection.
For RS485 bus operation, a circuit example can be found
in the respective pyrometer's user manual.

Depending on the operating system, suitable drivers are installed automatically or can be found on the CD supplied with the software *SensorTools* in the directory Drivers → FTDI_USB_COM, or after installing *SensorTools* in the installation directory (updated driver for Windows from the FTDI website: <http://www.ftdichip.com/Drivers/VCP.htm>). To achieve the maximum transfer speed, it is absolutely necessary to change the latency time in the advanced connection settings from 16 ms to 1 ms (settings in the Control Panel → device manager → Ports (COM & LPT) → USB Serial Port > Port Settings > Advanced > Latency Timer (at BM options)).
More information is available in the FTDI application note [AN_107 - Advanced Driver Options](#).