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:		Order no:	Model:
DK5232	RS232⇔USB, 1.7 m cable, open connection wires		DK3000	RS232⇔USB, 1.7 m cable, 9-pin Sub-D connector
DK5485	RS485⇔USB, 1.7 m cable, open connection wires		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⁺)		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)	⇔	Grey-pink and black (B⁺ / RxD)	White-yellow and white-grey (B⁺)
Yellow (A⁻ / RxD)	⇔	Red-blue and violet (A⁻ / TxD)	Brown-yellow and brown-grey (A⁻)
Black (GND)	⇔	Red (GND)	White-pink and brown-pink (DGND)

USB plug type A

Orange (B⁺)
Yellow (A⁻)
Black (GND)
(3x not used)

Note: only allows a point-to-point connection, a RS485 bus operation is not possible.

Suitable drivers can be found on the CD supplied with the pyrometer's 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/CDM/CDM%20v2.12.00%20WHQL%20Certified.exe).

To achieve the maximum transfer speed, it is absolutely necessary to change the wait time in the advanced connection settings from 16 ms to 1 ms.
These settings are available in the Control Panel via the Device Manager > Ports (COM & LPT) > USB Serial Port > Port Settings > Advanced > Wait time.
More information is available in the FTDI application note AN_107 - Advanced Driver Options.