Wiring-Box WB

Fully Assembled Connection Set
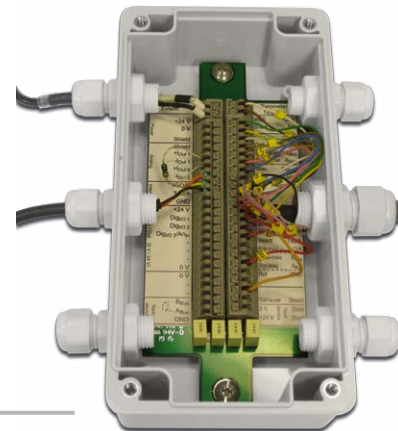

Power supply 24 V

Picture:
WB23-2-1-05

Box

Pyrometer connector

USB PC connector

Mains plug
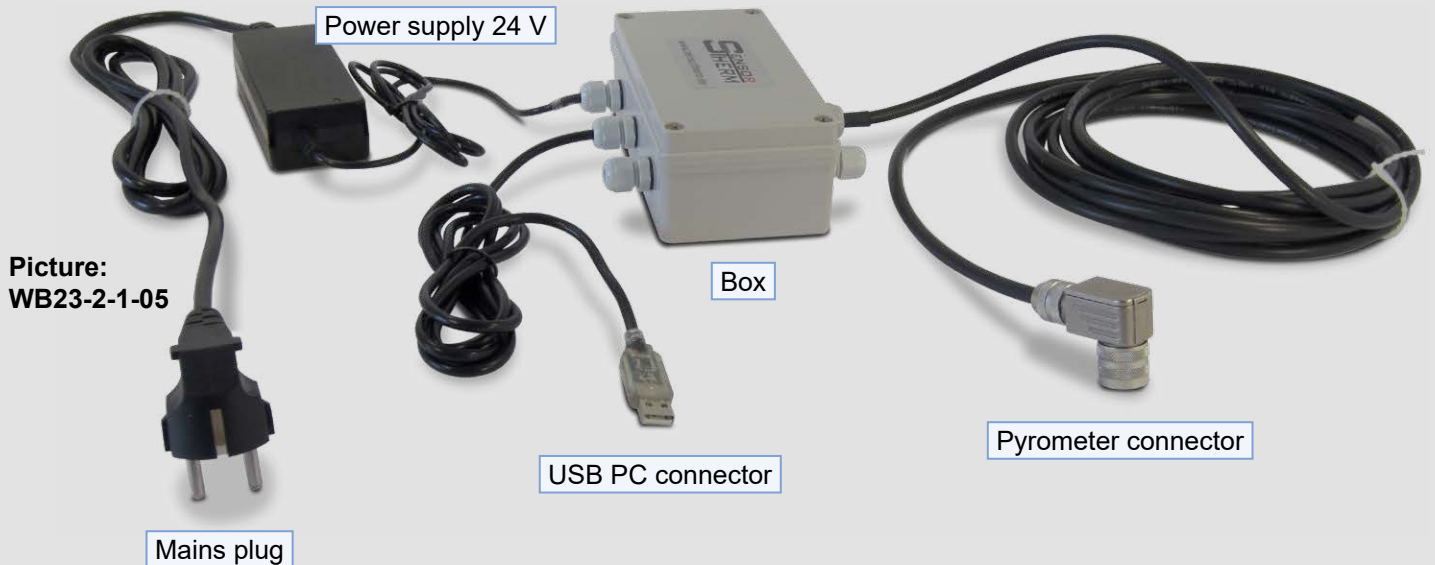
The wiring box is a fully assembled connection set for Sensortherm pyrometers.
Thus, the pyrometer is immediately ready to use. Via USB port a PC connection can be done for communication via PC software.

Standard set consists of:

- Connection box (protection class IP66) with terminal block, 6 cable glands for pre-installed cable or for connection of additional cables
- Desktop power supply 24 V
- Interface converter RS485⇔USB 2.0 with 1.7 m cable for connection to a PC
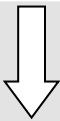- Pyrometer connection cable (5 m) with 12-pin or 17-pin connector

Typical standard sets:

Model	Description
WB23-2-1-05	for all pyrometers with 12-pin connector and RS485 interface

- Box
- Pyrometer connection cable (5 m) with 12-pin right-angle connector
- RS485⇔USB interface converter
- Power supply

WB25-2-1-05	for all pyrometers with laser targeting light, 12-pin connector and RS485 interface

- Box
- Pyrometer connection cable (5 m) with 12-pin angled connector and laser targeting light button
- RS485⇔USB interface converter
- Power supply

WB71-2-1-05	for all pyrometers with 17-pin connector and RS485 interface

- Box
- Pyrometer connection cable (5 m) with 12-pin straight connector
- RS485⇔USB interface converter
- Power supply

Technical Data

Box dimensions (L x W x H)	160 x 80 x 55 mm
Material / protection class	Plastic / IP66
Desktop power supply	80-264 V AC / 47-63 Hz → 24 V DC / 2.5 A
Interface converter	RS485⇔USB (for data transmission rates 4.8–921.6 kBd)
	RS232⇔USB (for data transmission rates 4.8–115.2 kBd)
Pyrometer connection cable	Twisted pairs, screened data transmission cable with color code acc. to DIN 7100, RoHS conf., PVC black, heat resist. -20°C to 90°C, short-term +105°C
Connection terminal	For wire diameters 0.518–2.08 mm², wire stripe length 7.5-8.5 mm (suitable for wire end ferrules for cable cross-sections from 0.14 mm²–1.5 mm²)
Housing cable glands	PG7 for 3–6.5 mm cable outside diameter (Exception: PG9 for pyrometer cable with 17-pin connector for 4–8 mm cable outside diameter)
Weight of standard set	1.25 kg

Individual Configuration (Reference number code)

Ref. no.	Options			suitable for
WB	**Box**			
	Pyrometer Cable / Pyrometer Connector 12-pin			**suitable for**
00	Without			
21	AL43	Straight connector		DK5232 / DK5485
22	AM43	Straight connector, incl. interface cable (1 m) with 9-pin Sub-D female connector		DK3000 / DK4000
23	AL11	Right angle connector		DK5232 / DK5485
24	AM11	Right angle connector, incl. interface cable (1 m) with 9-pin Sub-D female connector		DK3000 / DK4000
25	AL10	Right angle connector with targeting light button		DK5232 / DK5485
26	AM10	Right angle connector with targeting light button, incl. interface cable (1 m) with 9-pin Sub-D female connector		DK3000 / DK4000
27	AL15	Right angle connector with targeting light button, SC10 cable		DK5232 / DK5485
28	AM15	Right angle connector with targeting light button, SC10 cable incl. interface cable (1 m) with 9-pin Sub-D female connector		DK3000 / DK4000
29	AL17	Right angle connector incl. SC10 cable		DK5232 / DK5485
30	AM17	Right angle connector incl. SC10 cable, incl. interface cable (1 m) with 9-pin Sub-D female connector		DK3000 / DK4000
	Pyrometer Cable / Pyrometer Connector 17-pin			
71	AS54	Straight connector		DK5485
72	AS53	Straight connector, incl. interface cable (1 m) with 9-pin Sub-D female connector		DK4000
	USB Adapter			
0	Without			
1	DK5232	Interface converter RS232⇔USB, 1.7 m cable		open connection wires with 9-pin Sub-D connector
3	DK3000			
2	DK5485	Interface converter RS485⇔USB, 1.7 m cable		open connection wires with 9-pin Sub-D connector
4	DK4000			
	Power Supply			
0	Without			
1	With desktop power supply 24 V (power cord with German / French CEE 7/7 Schuko connector)			
2	With desktop power supply 24 V (power cord with American NEMA-5 connector)			
	Cable Length			
00 / 05 / 10 / 15	Length in meters (in 5 m increments)			
↳	**Reference number: WBxx-x-x-xx**			

Ref. no. WB — please select: **XX**
USB Adapter — please select: **X**
Power Supply — please select: **X**
Cable Length — please sel.: **XX**

Note: Several wiring boxes can be combined for RS485 bus operation.