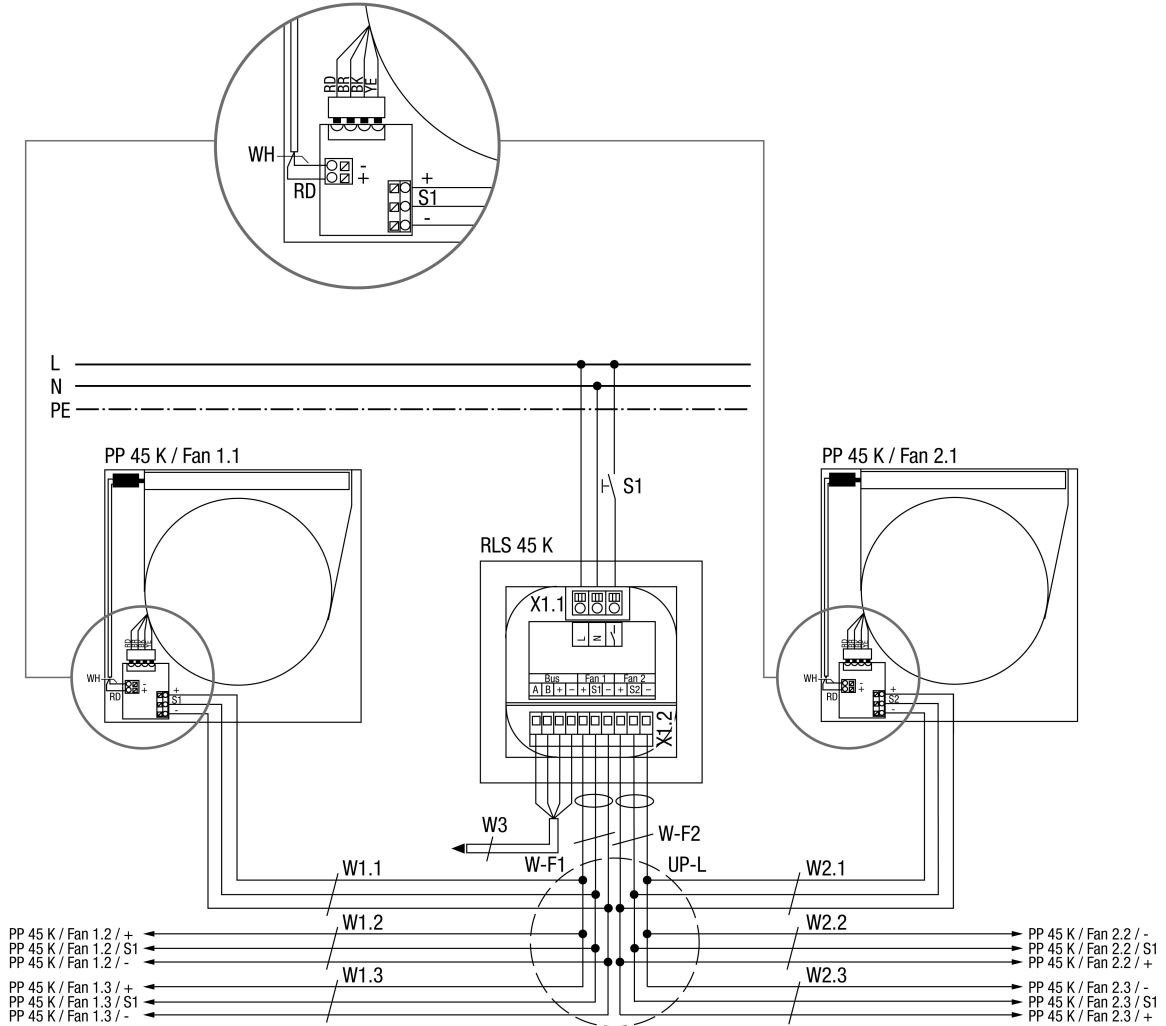


WIRING DIAGRAM

RLS 45 K



WIRING DIAGRAM



RLS 45 K

RLS 45 K - PushPull 45 comfort room air control

PP 45 K - PushPull 45 comfort fan unit

Fan 1.1 - fan unit 1, unit pair 1

Fan 2.1 - fan unit 2, unit pair 1

Fan 1.2 - fan unit 1, unit pair 2

Fan 2.2 - fan unit 2, unit pair 2

Fan 1.3 - fan unit 1, unit pair 3

Fan 2.3 - fan unit 2, unit pair 3

S1 - Button/switch for additional function (sleep, intensive, disbalance, safety function)

UP-L - Recessed-mounted distributor connection for fan units, connection of all fan units in star shape to distributor

W-F1 - Fan 1 control cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. length to distributor 4m.

W-F2 - Fan 2 control cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. length to distributor 4m.

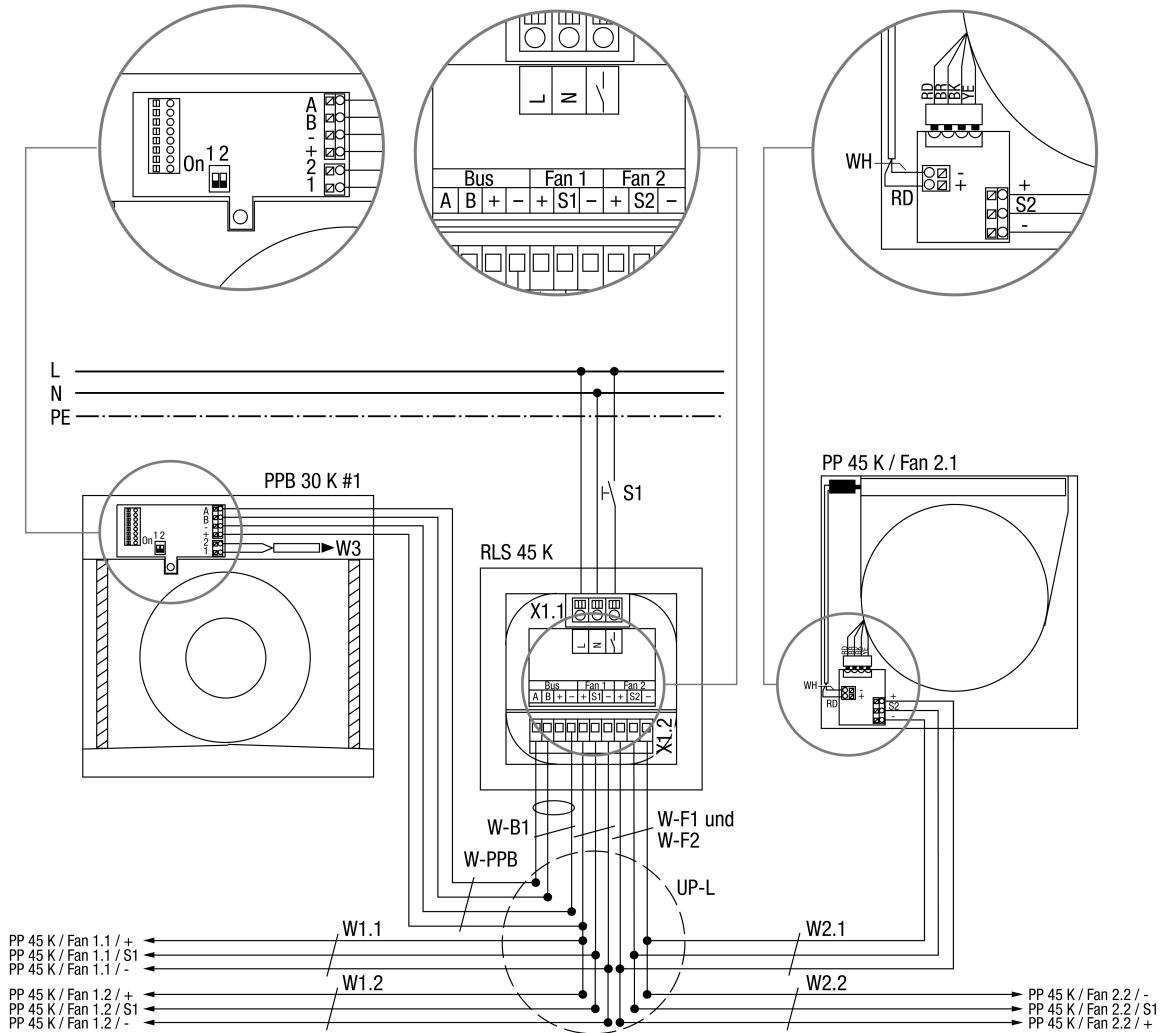
W1.X - Fan unit control cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. cable length from UP-L distributor to PP 45 ventilation unit = 25m.

W2.X - Fan unit control cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. cable length from UP-L distributor to PP 45 ventilation unit = 25m.

W3 - Bus (RS-485) connection cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. cable length to the sensors, RLS, LT and EnOcean module approx. 100m. Alternatively, this connection can also be used as a ModBus RTU interface.

WIRING DIAGRAM

RLS 45 K



RLS 45 K

RLS 45 K - PushPull 45 Comfort room air control

PP 45 K - Final assembly kit

PPB 30 K - Final assembly kit

Fan 1.1 – Fan unit 1, device pair 1

Fan 2.1 – Fan unit 2, device pair 1

Fan 1.2 – Fan unit 1, device pair 2

Fan 2.2 – Fan unit 2, device pair 2

S1 – Switch/button additional functions (sleep mode, intensive mode, imbalance mode, safety mode)

UP-L – UP distributor for fan units, connection of all fan units to the distributor in a star configuration

W-F1 – Fan 1 control cable, recommended cable type: J-Y(ST)Y 2x2x0.8 mm. Maximum length to the distributor: 4 m.

W-F2 – Control cable for fan 2, recommended cable: J-Y(ST)Y 2x2x0.8 mm. Maximum length to the distributor: 4 m.

W-B1 – Control cable for PPB bus; recommended cable: J-Y(ST)Y 2x2x0.8 mm. Maximum length to the distributor: 4 m.

W1.X – Control cable for fan unit; recommended cable: J-Y(ST)Y 2x2x0.8 mm. Maximum cable length from the UP-L distributor to the PP 45 fan unit = 25 m.

W2.X – Control cable for fan unit; recommended cable: J-Y(ST)Y 2x2x0.8 mm. Maximum cable length from the UP-L distributor to the PP 45 fan unit = 25 m.

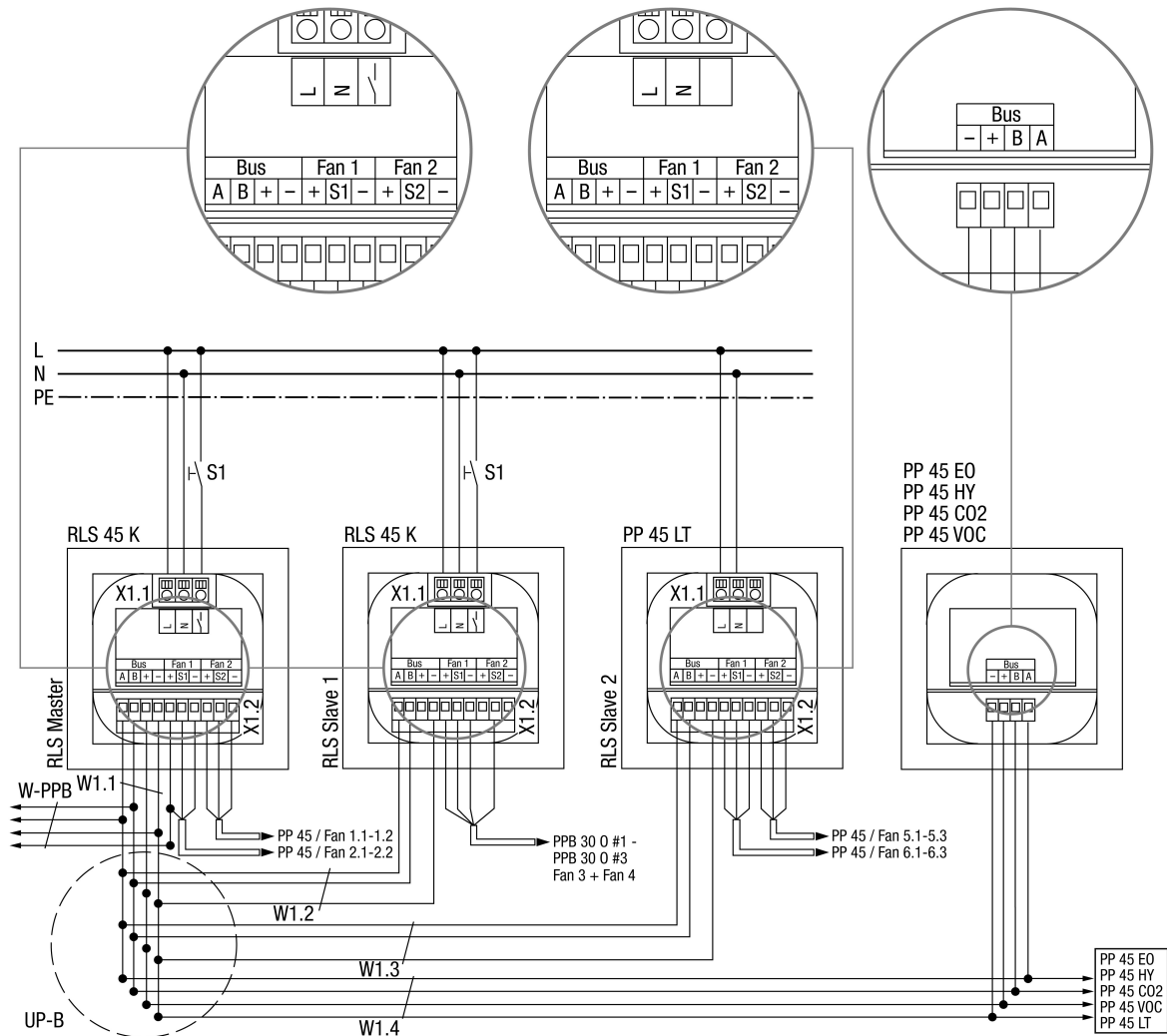
W-PPB – Control cable BBP 30 (bus), recommended control cable J-Y(ST)Y 2x2x0.8 mm. Maximum cable length from the UP-L distributor to the PP 45 fan unit = 25 m.

The terminal Bus (+) is not suitable for connecting ventilation units with a high power consumption. Connection for low-load devices only (e.g. sensors)

W3 – Connection duct for switches/push-buttons to activate special functions (EA mode, intensive ventilation); recommended control cable: LiYY 2x0.5 mm². Maximum cable length: 25 metres.

WIRING DIAGRAM

RLS 45 K



RLS 45 K - PP 45 Comfort room air control

PP 45 LT - PP 45 power unit

PP 45 EO - PP 45 EnOcean radio module

PP 45 HY - PP 45 humidity sensor for recessed mounting

PP 45 CO2 - PP 45 CO2 sensor for recessed mounting

PP 45 VOC - PP 45 VOC sensor for recessed mounting

Fan 1.1-1.3 - Fan unit 1 and 3 on RLS master

Fan 2.1-2.3 - Fan unit 2 and 4 on RLS master

W-PPB - Fan unit 5 (BBP 30 K) on RLS master connecting cable for bus (RS-485), recommended control cable J-Y(ST)Y 2x2x0.8mm². Max. cable length to the PPB 30 K, 25 metres from the star point

Fan 3 + 4 G1-3 - Fan unit 6,7,8 on RLS slave 1

Fan 5.1-5.3 - Fan unit 9,11,13 on RLS slave 2

Fan 6.1-6.3 - Fan unit 10,12,14 on RLS slave 2

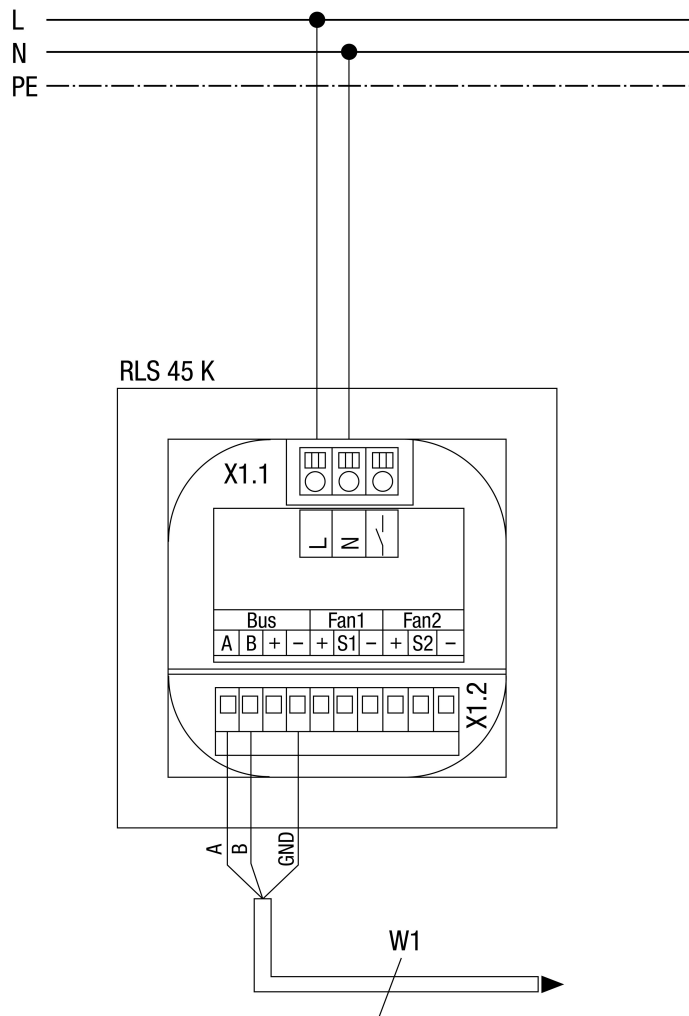
S1 - Button/switch for additional function (sleep, intensive, disbalance, safety function)

UP-B - Recessed-mounted distributor bus, connection of RLS, LT, EO and sensors using RS-485 bus interface

W1.X - Bus (RS-485) connection cable, recommended control cable J-Y(ST)Y 2x2x0.8mm. Max. cable length to the sensors, RLS, LTs and EnOcean module approx. 100 m. Alternatively, this connection can also be used as a ModBus RTU interface.

WIRING DIAGRAM

RLS 45 K



RLS 45 K - 45 comfort room air control / ModBus interface also available for object variant.

X1.1 - terminal mains connection

X1.2 - connection terminal bus/fan

W1 - GLT (ModBus) connection cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. cable length to gateway approx. 100m. Set parameters and undertake addressing by means of service mode or IBS* (commissioning software)

*IBS only in conjunction with the RLS 45 K

Interface info:

ModBus mode: RTU

Baud rate: 9600/19200

Data bits 8

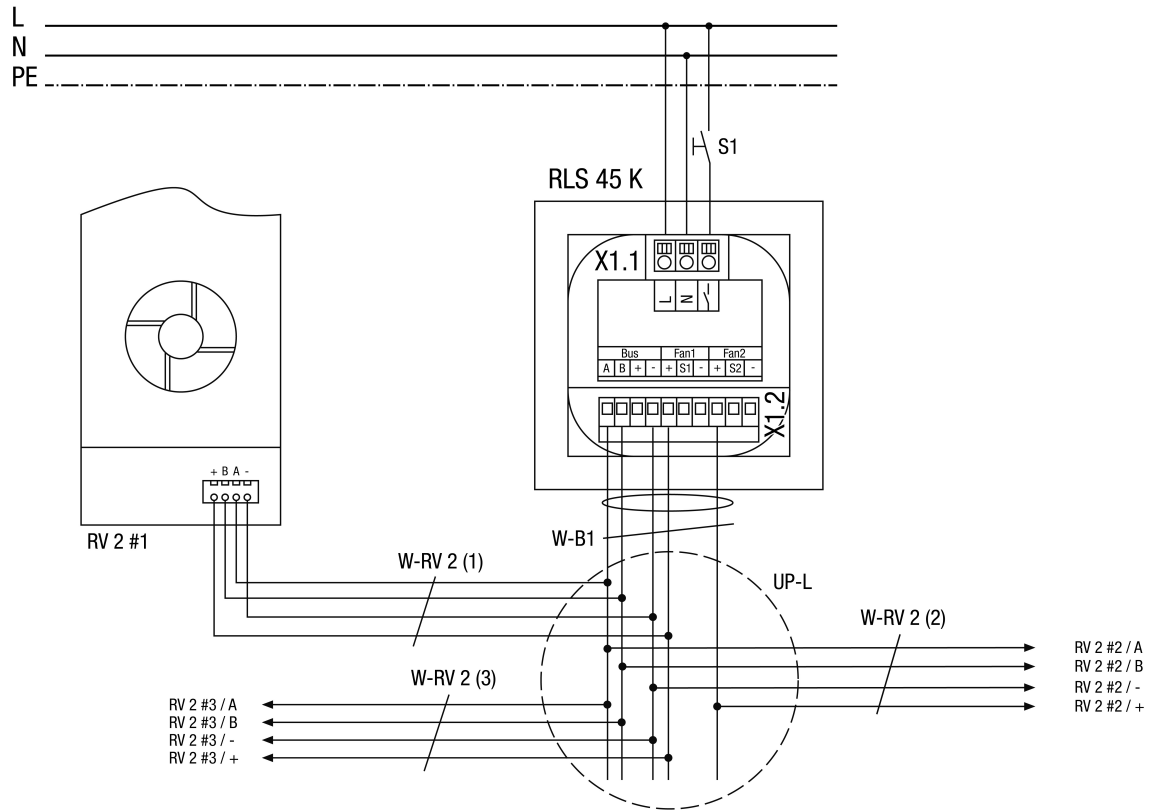
Parity: Even

Stop bits 1

Address: 10 (basic setting)

WIRING DIAGRAM

RLS 45 K



RLS 45 K Final assembly kit

RV 2 #1 PushPull ventilation unit 1

RV 2 #2 PushPull ventilation unit 2

RV 2 #3 PushPull ventilation unit 3

S1 switch/button additional functions (sleep mode, intensive, imbalance and safety functions)

UP-L UP distributor fan units: all fan units connected in a star configuration to the distributor

W-B1 Recommended control cable for RLS 45 K control system to star point/distributor (max. 4 m): Type J-Y(ST)Y 2x2x0.8 mm²

W-RV 2 (X) Recommended control cable for RV 2 ventilation unit up to star point/distributor (max. 25 m): Type LiYY 4x0.5 mm²