Heraeus IM^2 SensorLab to Receiver Box Wiring Guide Using Cat 5/6 Extension and DB9-RJ45 Adapters

⚠ **Wiring Note**: CAT 5/6 and DB9-RJ45 Adapters

- ❑ CAT 5/6 cable has 8 conductors, but DB9 requires 9 pins.
- ❑ Typical standard assigns RJ45 pin 7 → DB9 pin 4.
- ❑ However, Heraeus SensorLab and Receiver Box do not use DB9 pin 4.
- ❑ Instead, they **require DB9 pin 9 for the 24V DC return path**.

✅ **Correct configuration**:
Assign RJ45 pin 7 → DB9 pin 9

Note:
This ensures the 24V DC power loop functions correctly.
Omitting pin 9 will interrupt power delivery to the Receiver Box.

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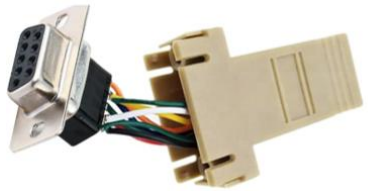
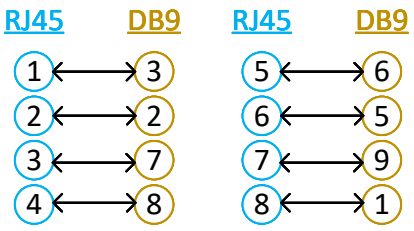
1 24V RCVR box supply
2 Tx+
3 Rx+
4 -
5 GND
6 +5V
7 Tx-
8 Rx-
9 GND for 24V

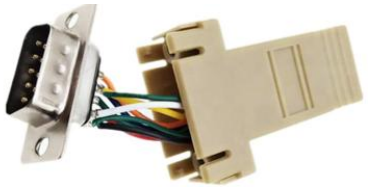
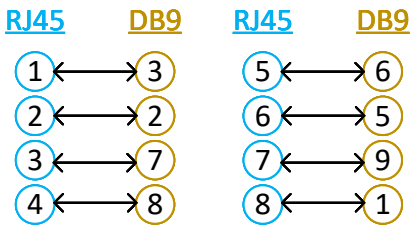
DB9 FEMALE



Wiring Diagram



DB9 MALE



Wiring Diagram