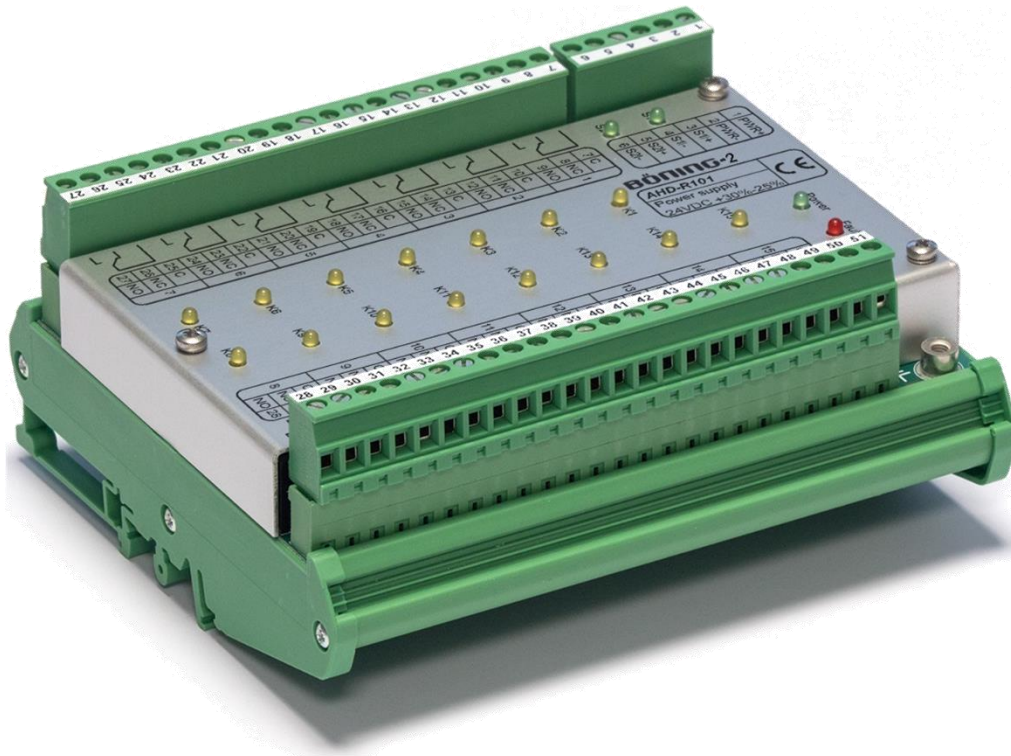


AHD-R101-2

Relais Station (Serial In)



- ***Reduction of wiring of spatially separated systems***
- ***Control of 14 switching outputs with changeover contacts***
- ***Separate fault output***
- ***Universally applicable up to 230 V AC, 3 A / 30 V DC, 2 A***

AHD-R101-2 is a device with 15 potential-free switching outputs, of which 14 are freely available. One switching contact is used to signal device faults.

If required, the device can be controlled redundantly at two bit-serial inputs. The data protocol is compatible to the following Böning devices:

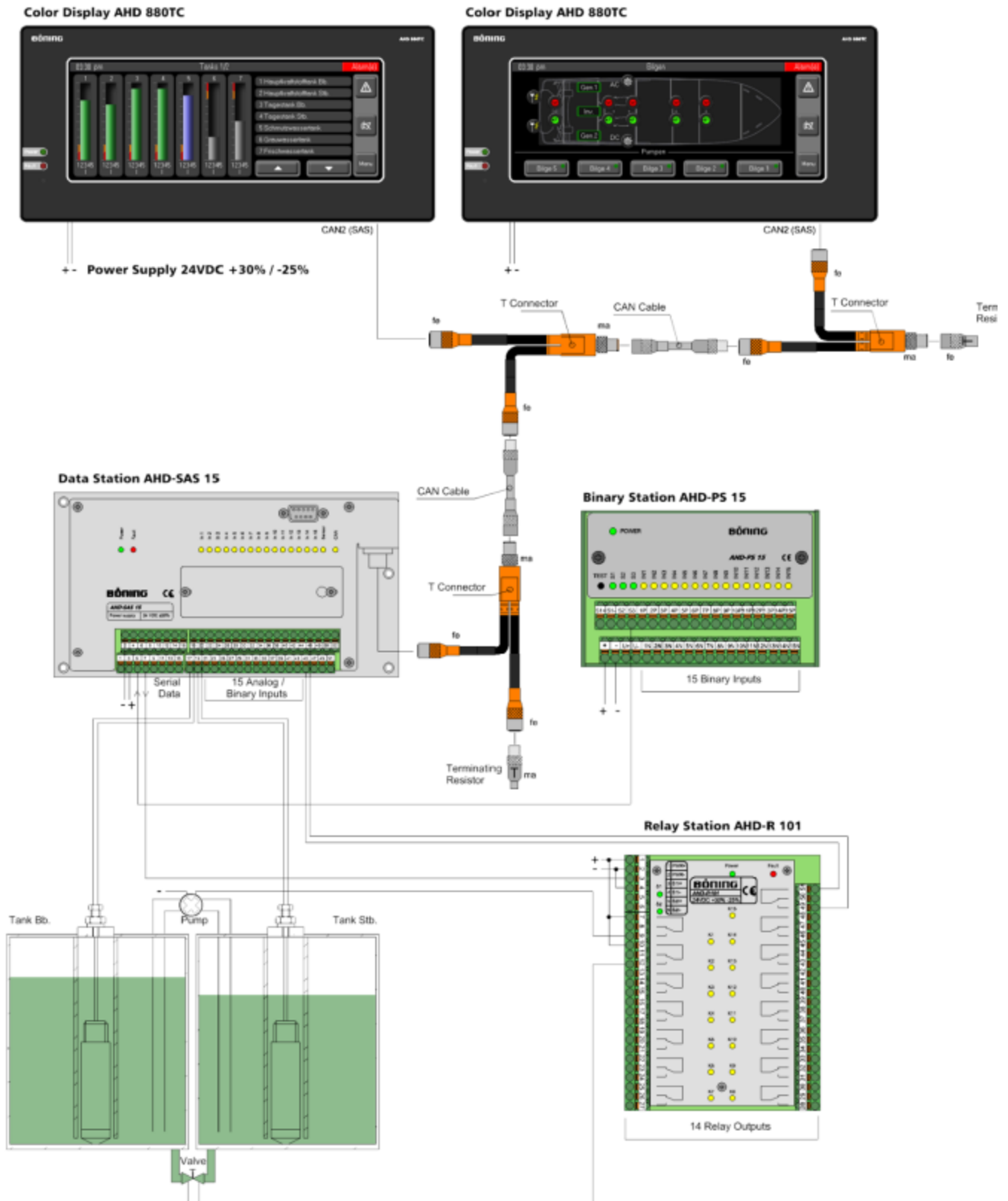
- Data station AHD-DPU 9
- Data Station AHD 882
- Data stations AHD-SAS 15 and AHD-PS 15

The new device AHD-R101-2 also serves as a replacement for the previous AHD-R101. The desired function variant is now selected with DIP switches.

AHD-R101-2 is designed for rail mounting on TS 32 and TS 35. For connection plug-in terminal strips with a total of 51 terminals are available. All relays are designed as potential-free changeover contacts with 3 terminals each.

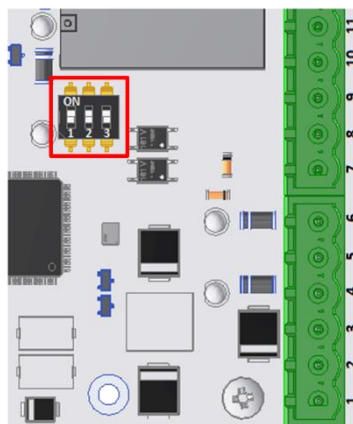
Applikation Example

Tank Level Control with AHD-R101-2



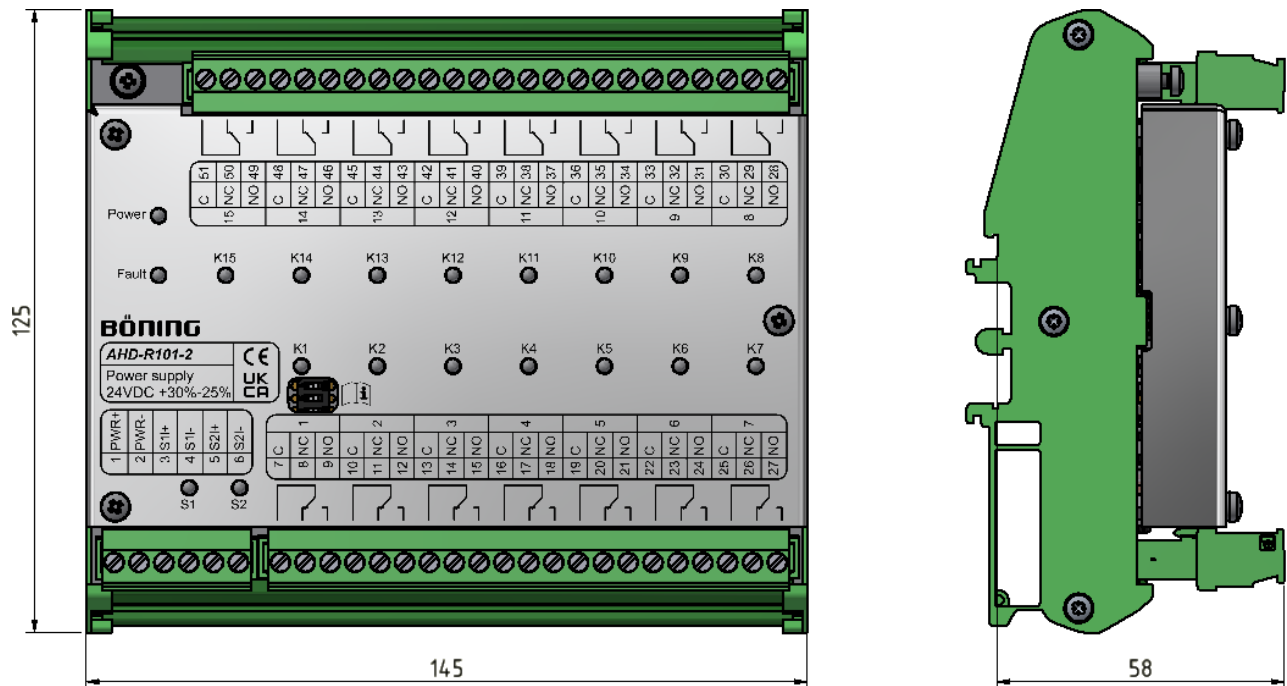
Operating Modes / DIP Switch Settings

DIP Switch Setting	Replacement for Previous AHD-R101	Function / Description
Mode 1 1=ON 2=OFF 3=OFF	Item no. 14754 V2.0A (AHD-DPU 9 / AHD 882, No Hold)	Data received from AHD-DPU 9 or AHD 882: Read at S1, after data failure, error contact K15 opens, all relays K1..K14 return to their idle state.
Mode 2 1=OFF 2=ON 3=OFF	Item no. 14753 V2.0B (AHD-DPU 9 / AHD 882, Hold)	Function as V2.0A, but wit the following difference: After data failure relays K1...K14 are held in their last state
Mode 3 1=ON 2=ON 3=OFF	Item no. 14756 V2.1C (AHD-DPU 9, Double Serial)	2 channel version for redundant systems, data received from AHD-DPU 9 or AHD 882: Data by default read at S1, after data failure at S1 error contact K15 opens, now read at S2. After renewed data reception from S1, S1 is processed again. After data failure at S1 and S2 for at least 5 s, all relays K1...K15 return to their idle state.
Mode 4 1=OFF 2=OFF 3=ON	Item no. 18584 V2.1D (AHD-DPU 9, Double Serial 2)	Function as V2.1C, but with the following difference: The error contact K15 opens only after failure of both data sources S1 and S2.
Mode 5 1=ON 2=OFF 3=ON	Item no. 15463 V1.52 (AHD-SAS 15, No Hold)	Function like V2.0A, but data received from AHD-SAS 15 or AHD-PS 15: Data-compatible to AHD-SAS 15 / AHD-PS 15
Mode 6 1=OFF 2=ON 3=ON	Item no. 15315 V1.53 (AHD-SAS 15, Hold)	Function like V2.0B, but data received from AHD-SAS 15 or AHD-PS 15: Data-compatible to AHD-SAS 15 / AHD-PS 15



Note: To set the DIP switches, remove the front panel first!

Dimensions



Technical data

Power supply	24 V DC (+30% / -25%)
Current consumption	Max. 350 mA at 24 V DC
Operating temperature	-10°C...70°C
Storage temperature	-30°C...85°C
Weight	Approx. 0.55 kg
Degree of protection	IP10
External dimensions	145 x 125 x 58 mm
Inputs	2 x serial (Opto-coupler)
Outputs	15 x change-over contacts, max. 230 V AC / 3 A or 30 V DC / 2 A - K1...14 freely available - K15 = fault contact (NC/NO)
Installation	Mounting rail TS 32 and TS 35
Approvals	ABS, DNV, LR, RINA, others on request
Item number	19924