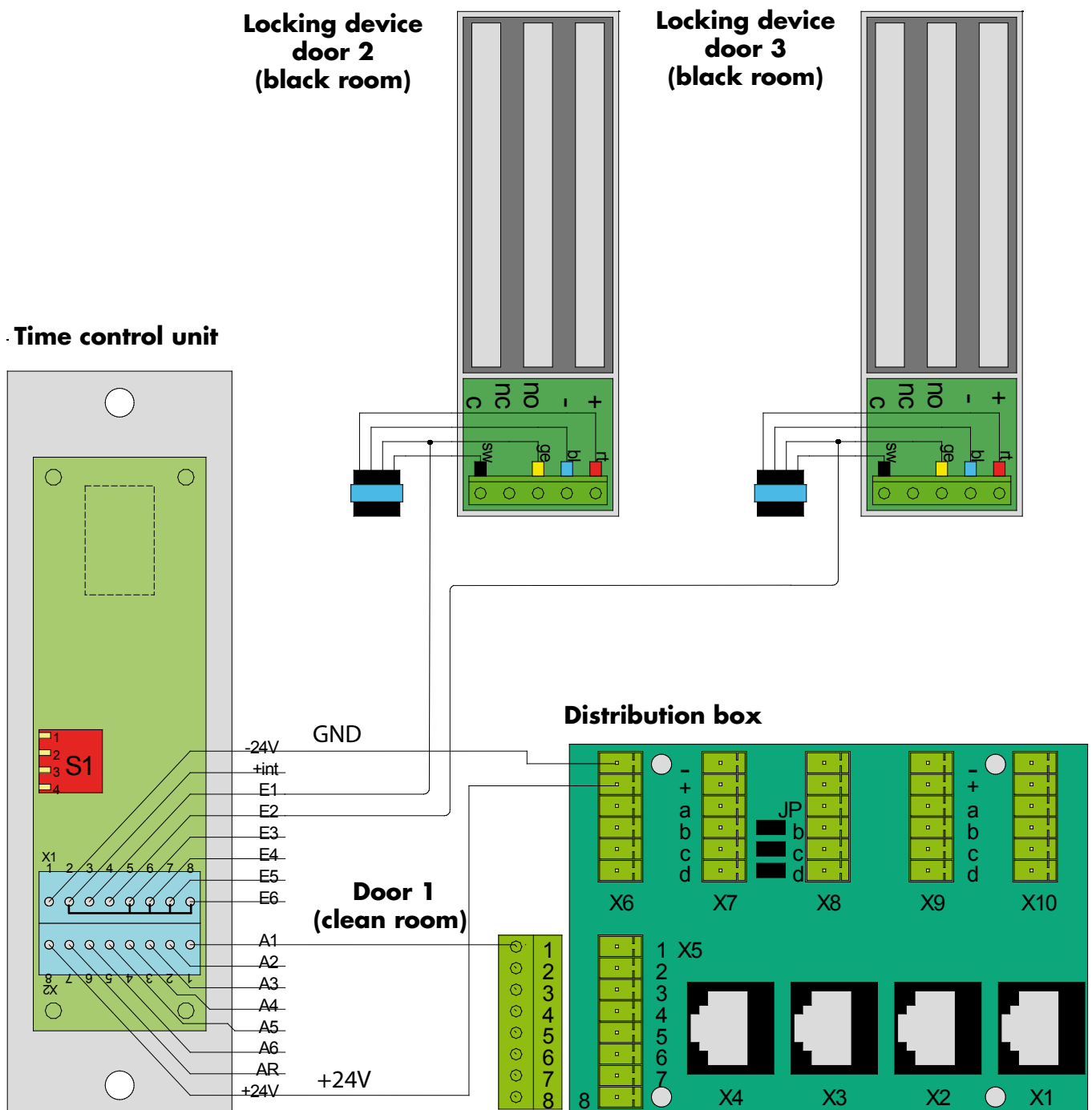


## Connection of the Time Control Unit with Indication

The time control unit allows to set a time. Only when this adjustable time has run out the access doors (max. 6 clean room doors) are released. This depends on the closed corresponding "black room" doors (max. 6 pieces).

The indication shows the time in a countdown from 9 to 0 in approximately equal time segments of the total time.



Example on the Previous Page

Connection of the Time Control Unit with Indication - cont.

When door 2 or door 3 (black room doors) are released or opened door 1 (clean room door) is locked.

When both black room doors are closed the time control unit starts. If during this time one of the black room doors is opened, the countdown starts again. Only when the adjusted time has run out door 1 (clean room door) is released - e.g. to achieve a certain air quality/temperature in the clean room.

Connection of Black Room Doors - Terminal Strip X1

Doors defined as black room doors are always connected to the entrances E1 - E6. By default all entrances E1 - E6 with X1 terminal 2 are connected by a jumper. At the used entrances this jumper has to be cut through. At all not used entrances, however, the jumper to the X1 terminal 2 ("+int") has to remain as the time control unit only starts when all black room doors or entrances are closed.

Connection of Clean Room Door - Terminal Strip X2

The clean room door(s) depending on the black room doors is/are connected via the terminals A1 - A6 on the X2 terminal strip of the time control unit to the terminals 1 - 8 of the terminal strip X5 of the distribution box. Not needed exits remain free!

The AR exit can be used to control an additional 24 V relay (max. 50 mA). It switches to GND.

Adjusting the Time

By default the following 15 times are programmed in the EEPROM. They are adjusted by DIP switch S1:

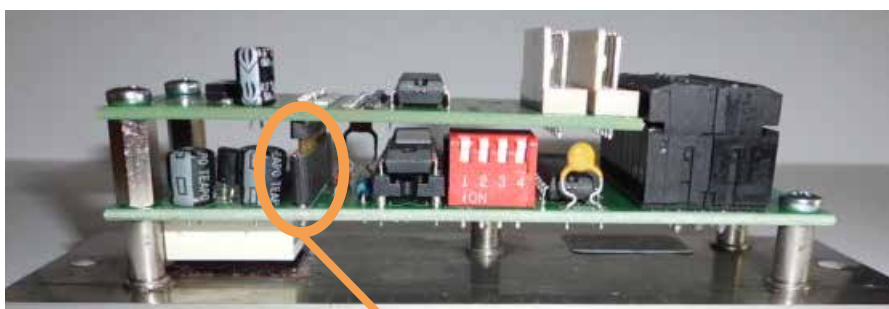
Position	1	2	3	4	Time
	off	off	off	off	15 s (default setting)
	on	off	off	off	20 s
	off	on	off	off	25 s
	on	on	off	off	30 s
	off	off	on	off	35 s
	on	off	on	off	40 s
	off	on	on	off	50 s
	on	on	on	off	60 s
	off	off	off	on	120 s
	on	off	off	on	180 s
	off	on	off	on	240 s
	on	on	off	on	300 s
	off	off	on	on	420 s
	on	off	on	on	540 s
	off	on	on	on	660 s
	on	on	on	on	0 s (time control not working, LED indicator "n")

## Connection of Additional Displays to the Time Control Unit

If the length of stay shall be indicated also at other places, you can parallel connect up to 6 additional displays ZA. In addition to the required number of additional displays you need an extender circuit module for additional displays (part no. 710808).

### Connecting the Extender Circuit Module (710808) to the Time Control Unit

The extender circuit module is simply plugged on the time control unit.



For this purpose are on the underside of the extender circuit module corresponding pins (1) (see photo on the right). In addition you use the included stand-offs (2) to screw it on the time control unit. The DIP switches of the time control unit remain accessible from the side, also with the attached extender circuit module.



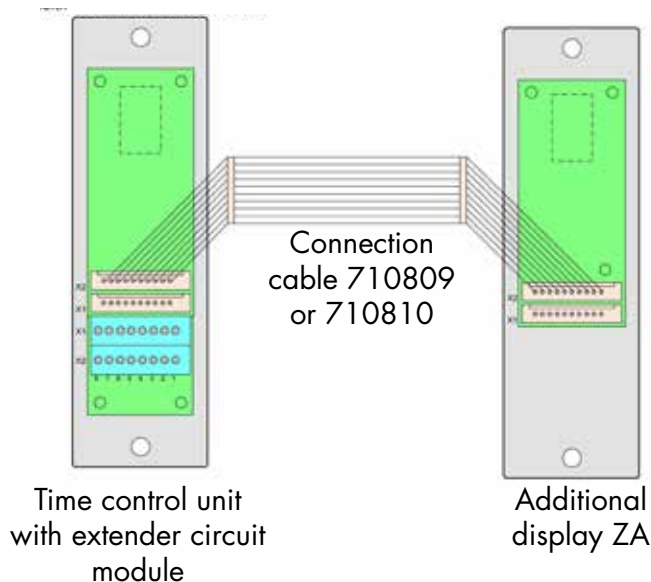
### Connecting Additional Displays (710806) to the Extender Circuit Module

By means of the extender circuit module you can connect up to 6 additional displays to the time control unit. For this purpose two (beige) pin headers X1 and X2 are provided (ATTENTION: Don't confuse them with the black terminal strips X1 and X2 on the time control unit).



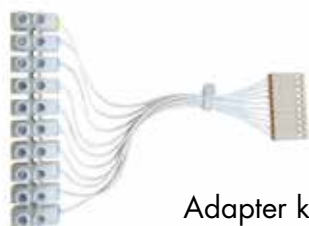
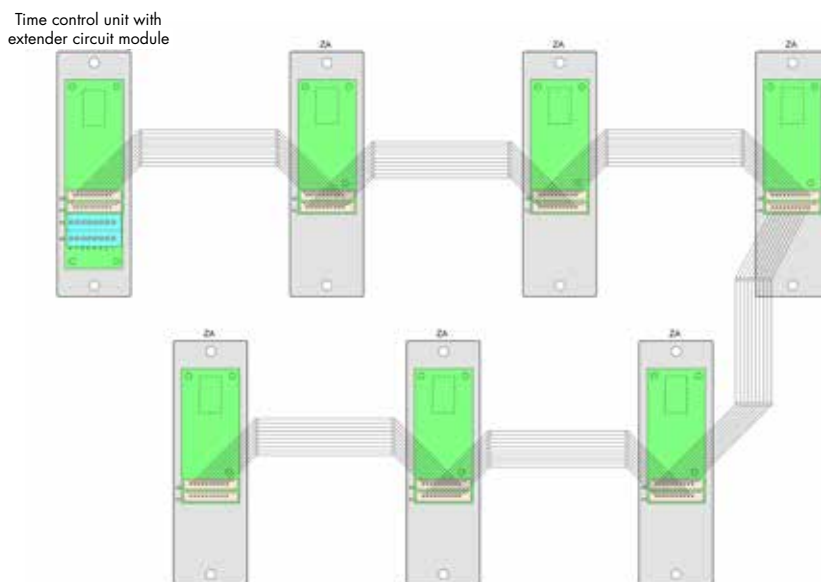
## Connection of Additional Displays to the Time Control Unit - cont.

### Connection of a single additional display (ZA)



### Connection of two to six additional displays (ZA)

The connection cable between the two components is plugged in in the corresponding pin header: i.e. cable from X1 to X1, from X2 to X2.



Adapter kit  
710811

The **connection cable** with plug is available in two different lengths: 250 mm (710809) and 1000 mm (710810). In case you need longer cables, you can use your own ones. However, then you need an adapter kit (part no. 710811) for each plug-in position.

**ATTENTION:** The maximum distance between the single modules shouldn't be more than 15 m. When the distances are longer, please contact us because then you have to use screened cables and a correspondingly larger cable cross-section.