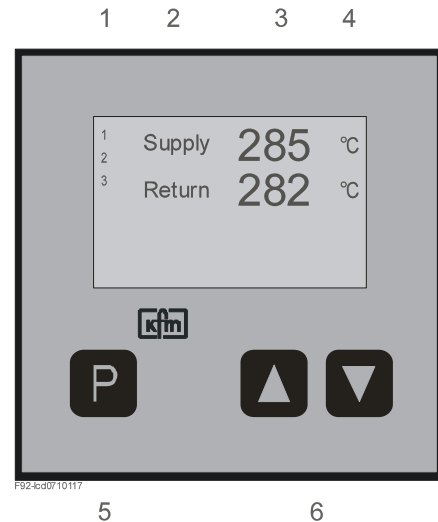


- 1 LCD display for relay function
- 2 Descriptive text for displayed values
- 3 Digital value displays
- 4 Unit of display
- 5 Key for setpoint and parameter mode
- 6 Setpoint adjustment



**General:**

With remote devices 902A50 controller types 902 / 93 can be remotely operated, i.e. all operations can take place at the controller as well as at the remote control device resp. all indications are visible on both.

In the attempt of simultaneous operation the device which was operated first has priority. At this device the operation can be continued normally, at the other device the operation is blocked. But at any time on the displays of both devices identical contents are indicated. After the used menu level of the prior device has been left, operation is possible at both devices.

Depending on type, keys can be integrated in the remote device or routed to the terminals for connecting external keys.

The connection to the controller type 902 / 93 is realised by a patch cable and the interface adapter 99szks.r (small housing) or 99sr. (housing for mounting on DIN rail). The remote device is connected to the output terminals of the interface adapter (max. distance 1000m). Optionally, the service interface of the controller is available on the interface converter 99szks1r resp. 99sr1.

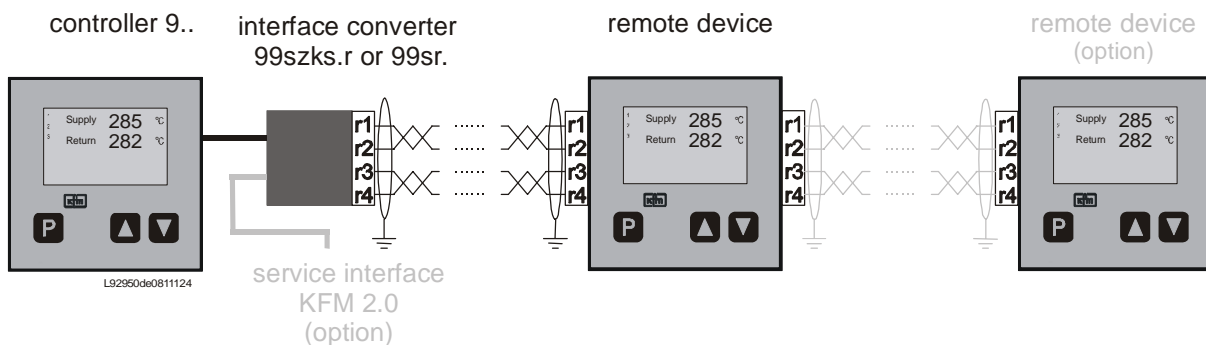
**Types**

- Remote device standard version, power supply 100...250V AC
- Remote device standard version, power supply 24V DC
- Interface converter for mounting on DIN rail, incl. (without) service interface
- Interface converter small housing, incl. (without) service interface

**List No.:**

- 902A500
- 902A508
- 99sr1 (99sr0)
- 99szks1r (99szks0r)

**Connections: (Example)**



Hint: *Interface circuits* must be laid with **shielded** and **twisted** cables. To avoid cross interference, do not lay close to components or lines through which current is flowing. Lay the shield to ground potential on both ends.

**Hints for setup-level:** The setup-level is entirely for the *configuration of the remote device* and is only used exceptionally for adjustment of contrast and brightness of the background illumination, resp. for the configuration of different bus addresses when using two remote devices. The control of the connected controller in the operating mode is possible automatically after leaving the setup-level.



Press and hold the **P** - button, switch on power supply

A frame with the description „SETUP“ shows the activated setup-level.  
 Release **P** - button,

*continue* to the next parameter and/or *confirm* entry:  
 briefly press each time the **P** - button

To *change* the setting displayed: Press the **▼**...**▲** buttons

**Settings in detail:**  
 (existence depends on version and type):

		Factory setting:	Notes
<b>Adr</b>	bus address (0...1)	0	—
<b>CRST</b>	Contrast setting for display remote device (0 ... 20)	10	—
<b>BRIG</b>	Brightness adjustment for display remote device (0 ... 20)	10	—

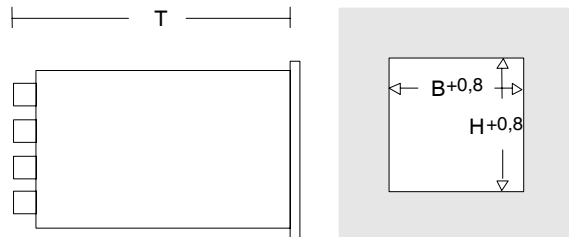
*return to operating mode:*  
 briefly press the **P**- button

**Error messages:**

**OFFLINE**      Fault on remote interfaces, data link interrupted  
 Check the patch cable and the interface converter 99s.. connection  
 as well as the controller 9.. power supply.

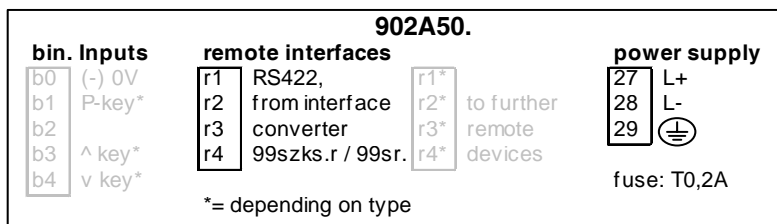
**Technical data / Installation dimensions 902A50.:**

Housing: for panel mounting, 96x96mm  
 Power supply: 24 VDC, alt. 100..250VAC, app. 2 VA  
 Protect. system (DIN EN 60529):  
 IP 54 (terminals IP 20)  
 Permissible ambient temperature: 0...60°C  
 Nominal temperature: 20°C  
 Climatic category: relative humidity <= 75 %  
 yearly  
 average, no condensation  
 EMC: refer to EN 61326  
 Serial interface: RS 422, max. length 1000m

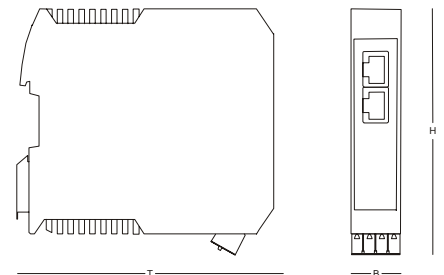


Form 96x96: H=92mm, B=92mm, T=150mm

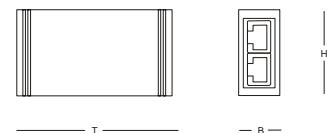
**Wiring diagrams:**



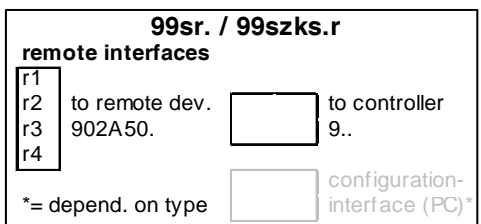
**Installation dimensions interface converter 99sr. / 99szks.r :**



H= 110mm, B = 22,5mm, T = 116mm



H= 42mm, B = 20mm, T = 76mm



(Examples, valid for each device is the wiring diagram on its casing only)