

## Front View



- |                                    |                      |
|------------------------------------|----------------------|
| ① Status temperature steps 1 and 2 | ⑤ Level display      |
| ② Status level steps 3 and 4       | ⑥ Level unit         |
| ③ Temperature unit                 | ⑦ Operating elements |
| ④ Temperature display              |                      |

## Controller operation manual

Switching on:

After power-up PAN-1, device prints „PAN“, Version and last 4 digits of its ordernumber\*\*\*. After that actual values will be displayed.

Menue-stages

- View parameters
- set parameters

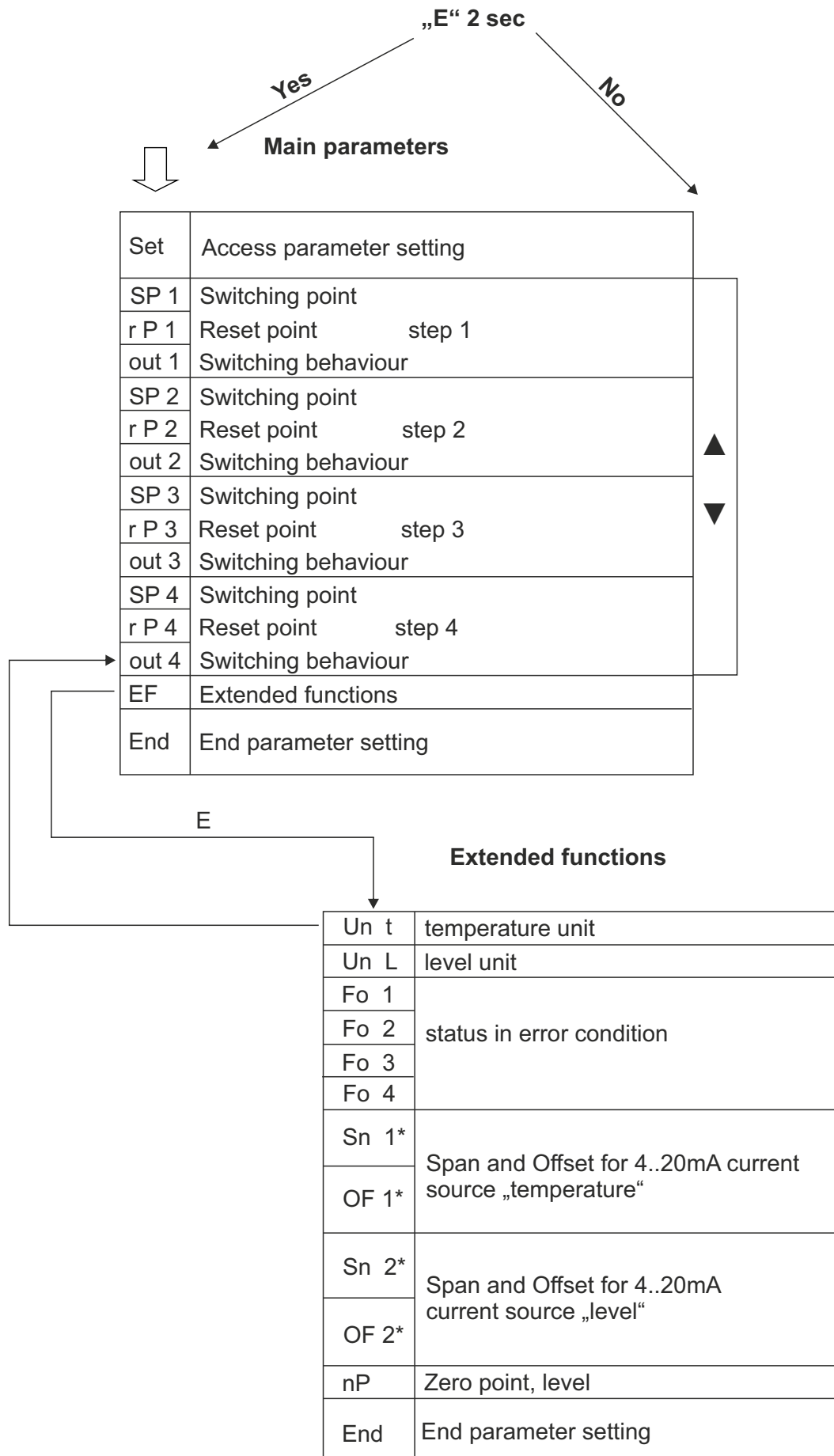
Operation-button:

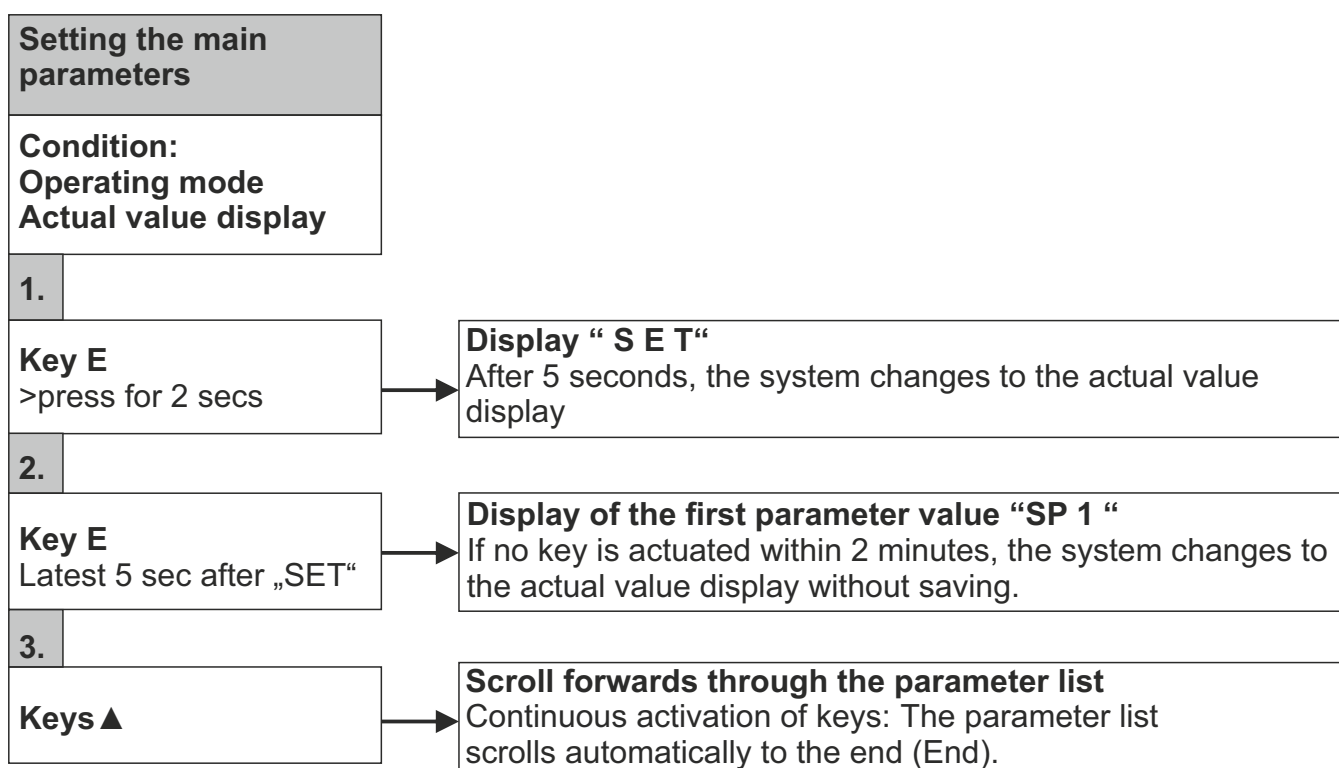
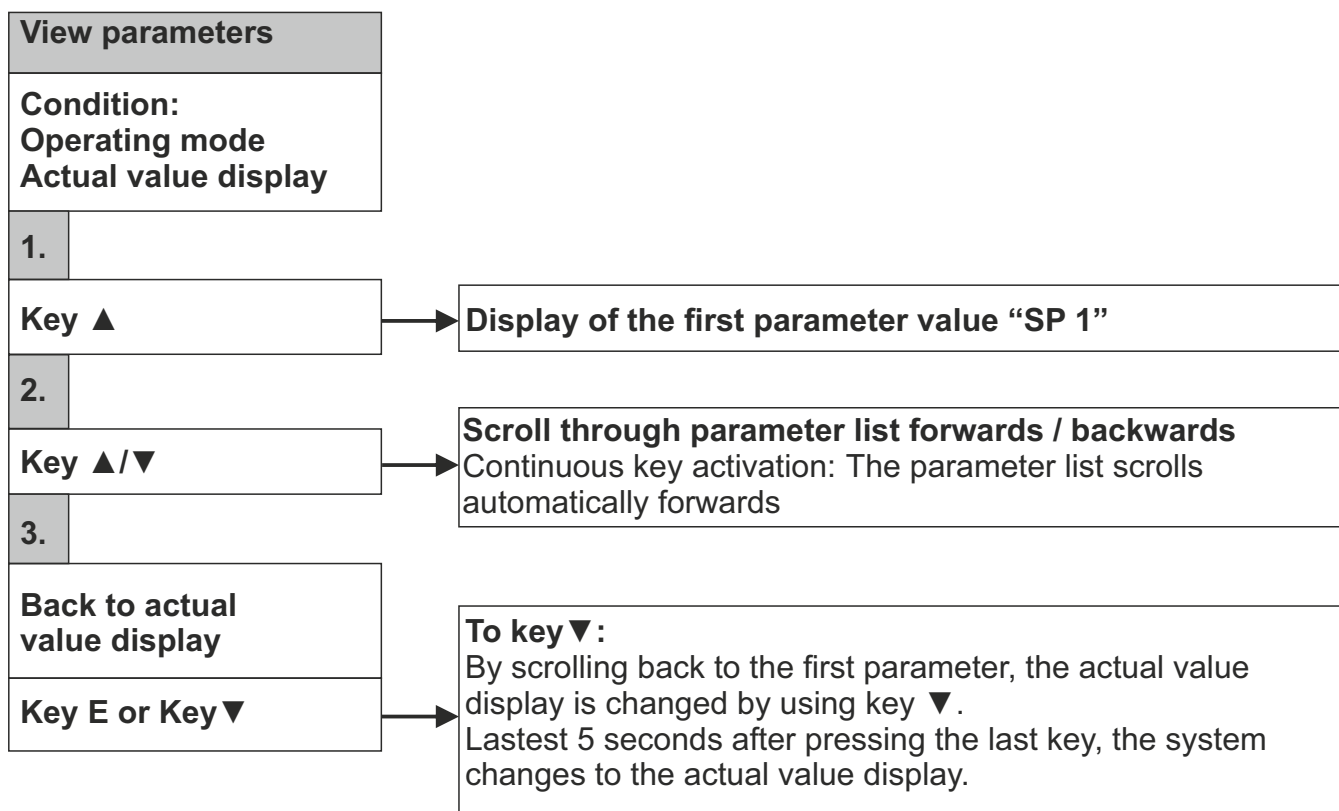
- scrolling or change value with ▲ and ▼
- adjustment with E

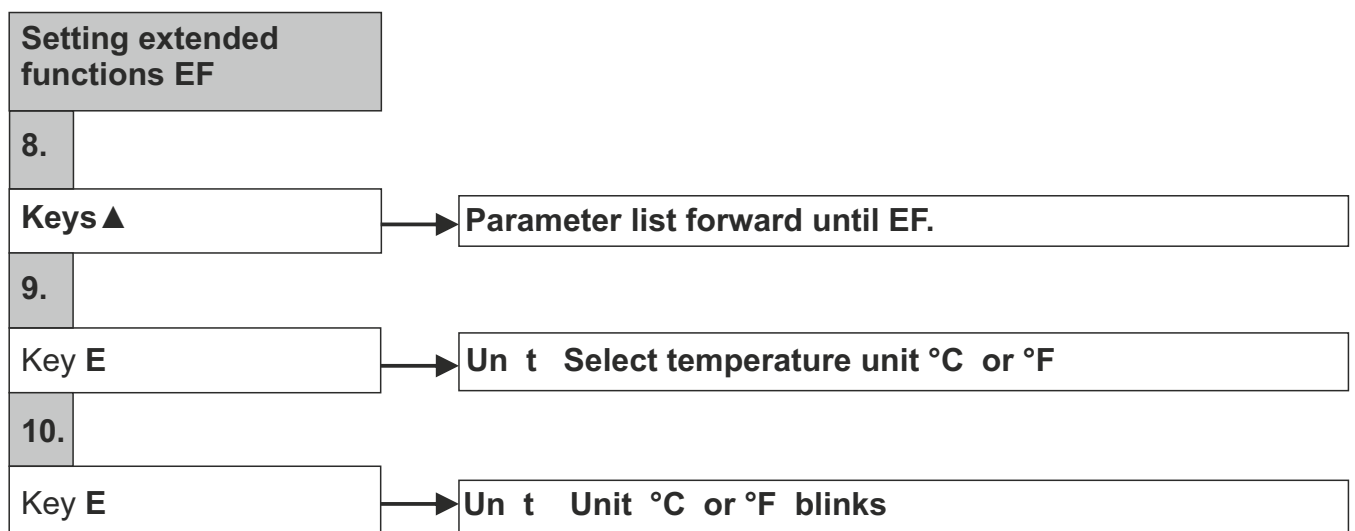
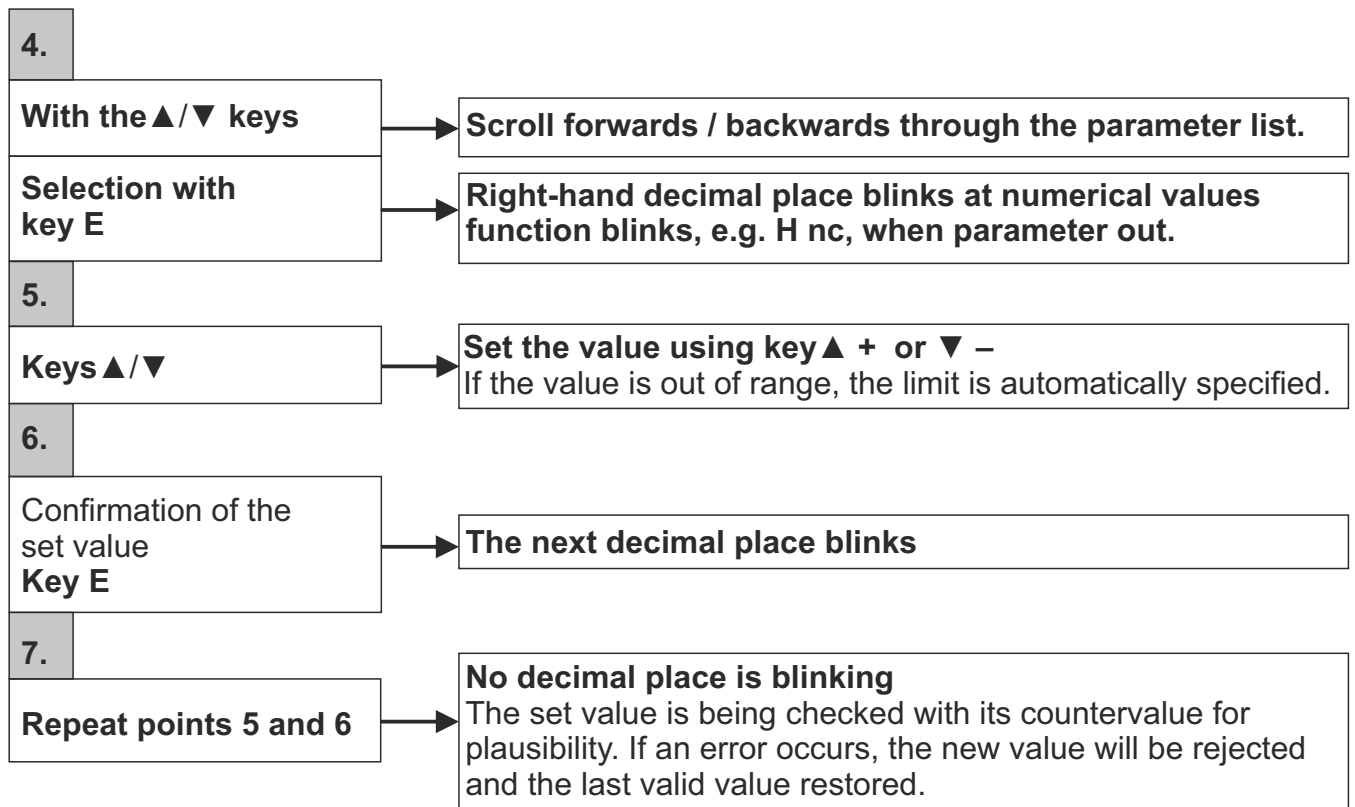
## Parameter Overview

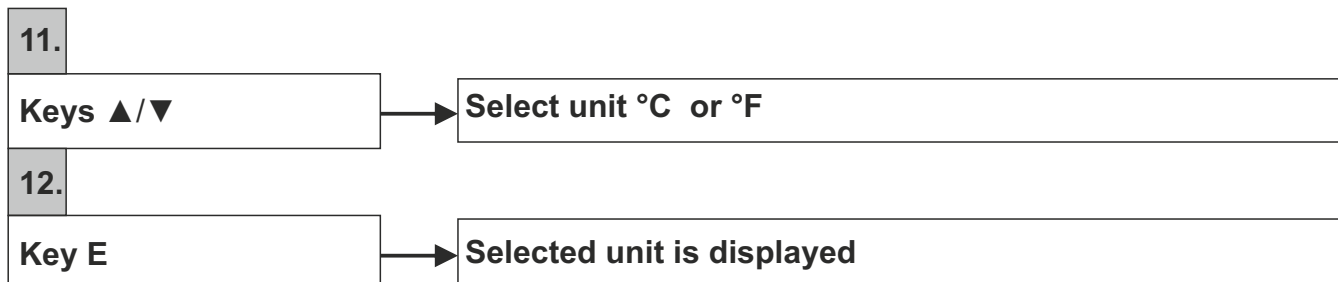
- S. e. t . . . . . Access to parameter setting
- S. P. . . x. . . . . Switching point for chanal x.
- r . P. . . x. . . . . Reset point for chanal x.
- o. u. t . x. . . . . Output switching behaviour for Kanal 1-4.
  - H. . n . o. . . . . Output hysteresis n.o. contact.
  - H. . n . c. . . . . Output hysteresis n.c. contact.
  - F. . n . o. . . . . Output window n.o. contact.
  - F. . n . c. . . . . Output window n.c. contact.
  - \*\* L. . n . o. . . . . Output waterdetection n.o. contact.
  - \*\* L. . n . c. . . . . Output waterdetection n.c. contact.
- E. F. . . . . . . . . . . Extended functions
  - U. n . . . t. . . . . Temperature units (°C or °F)
  - U. n . . . L. . . . . Level units (mm or inch)
  - F. o . . . x. . . . . Output switching behaviour step x in case of error
    - n . o. . . . . Output n.o. contact
    - n . c. . . . . Output n.c. contact
  - \* S. n . . . x. . . . . Current source, span
  - \* O. F. . . x. . . . . Current source, offset value
  - n. P. . . . . . . . . . . Virtual Zero point value for level (immersion depth)
- E. n. d . . . . . . . . . . End parameter setting

\* only PAN-1 with option „current source“  
\*\* only PAN-1 with option „water detection“  
\*\*\* not applicable to PAN-1 with „water detection“



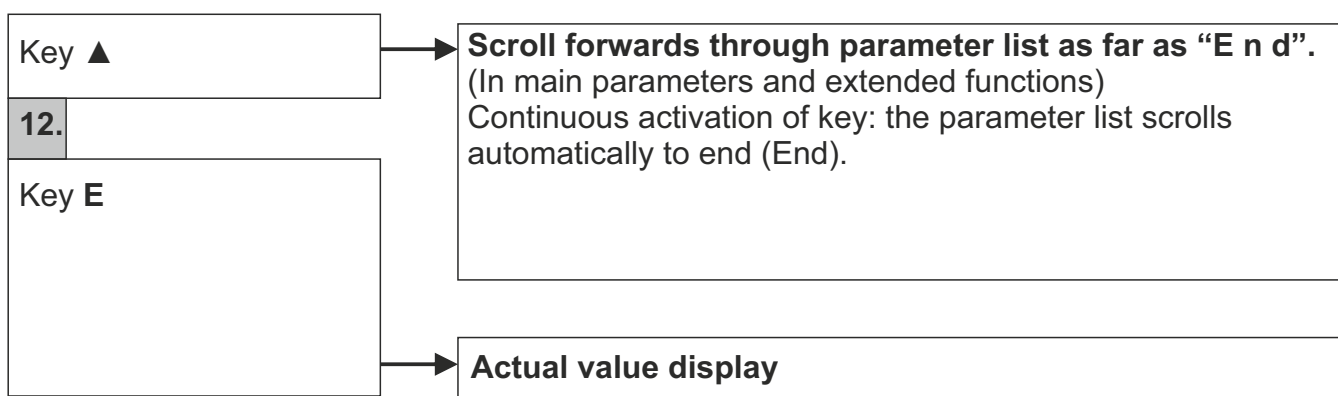






### Using the keys ▲ / ▼

Additional functions (see menu structure) can be accessed in the extended menu. To set the functions, proceed as described under point 9 to point 12.



### Malfunction

Temperature sensor: Temperature actual value display indicates "Err" and the status LED's 1 + 2 blinks. The temperature outputs will be set in accordance with Fo 1 + Fo 2. The temperature power source will be set to value  $\leq 3,6$  mA.

Level sensor: Level actual value display of indicates "Err" and the status LED's 3 + 4 blink. The level outputs will be set in accordance with Fo 3 + Fo 4. The level power source gets adjusted to the value  $\leq 3,6$  mA.

Output short circuit: The output gets deactivated and the appropriate status LED blinks. Cyclical examination whether the short-circuit is eliminated.