

This function expansion makes it possible to switch over control units of series 9.. from the internal equipment set point value to an externally specified setpoint value, as desired.

The analog input for processing the external setpoint value signal is identified on the connection terminals with the designation SPE, as well as the optional connection type of voltage (U) or direct current (I).

The voltage or current range may be configured to 0 or 2...10 V or 0 or 4...20 mA. Furthermore, the setpoint range allocated to the signal range is freely adjustable. The function of the value is selectable by menu as absolute (abs) adding (add) or subtracting (sub).

Depending on type, switch-over from the internal to the external setpoint value takes place through a binary control input (potential free contact, alternative: external voltage 24 VDC) or is to select, additionally with the type extension "...mb", by menu adjustment in the setpoint level (SP-F: choice SP = internal or SPE = external setpoint). Only for type extension "...mb" : The configuration of the external setpoint for series 902.. takes place in the configuration level using SPEF (resp. SP-F for type 9..) by selecting BIN = activation by bin. input or MENU (resp. SP-L for type 9..) = activation by menu adjustment in the setpoint level.

In the operating level, the incoming external setpoint value signal is displayed under the designation "SPE" after the setpoint value "SP", once the P key is actuated again. In addition, it can be recognized whether this is currently effective, depending on the switch setting: The respective active value SP or SPE appears in normal indication, the inactive value is flashing.

Providing the setpoint value in the operating level is displayed in the bottom display, this display automatically switches over to the external setpoint value, i.e. as soon as it has been activated it displays the current effective setpoint value.

**Types**

**List No.**

Activation with control input for potential free contact\*

99bwa

Switch-over with menu function or potential free contact\*

99bwamb

\*Depending on sub type, the use of external voltage 0 / 24VDC alternatively to potential-free change-over switches is possible.

**Order text:**

Accessory equipment:  
Function expansion for external setpoint value  
with additional analog input 0/4...20mA o. 0/2...10V  
Types... List No.....

**Additional connection terminals:** Examples, valid for each delivered controller is the wiring diagram on its casing only.

