

Method of operation:

The functional extension for continuous PID controllers consists of a following electrical output for the operation of motors, control valves or other electrical actuators. The operation, control and optimisation of the continuous controller remain, in principle, unchanged.

The continuous control signal is converted via the relay outputs K1 (open) and K2 (closed) directly into a corresponding setting of the connected actuator (see the controller data sheet for the circuit diagram). At the same time, the usual continuous output is omitted (with the exception of Type 991uy).

In addition to the two additional relays, the necessary supplementary item, 99axr, the input for the position feed back, is also supplied. A feedback potentiometer for indication of the position must be present on the actuator that is being driven.

The expansion to version 2 consists of an additional input and an output for a second actuator, whose position is compared with the first and made to follow it.

The functional extension for a three-step controller allows a second actuator to be operated in parallel. The position is continuously compared with that of the first actuator, and made to follow it. In addition to the two additional relays, the two necessary items of supplementary equipment, 99axr, inputs for the position feed back, are also supplied. Feedback potentiometers for indication of the position must be present at both the actuators that are being driven.

Models:

List no.:

Position controller instead of continuous output	991u
Position controller in addition to continuous output	991uy
Double position controllers instead of continuous output	991u2
Position controller for continuous heating/cooling controller (9281.):	
- instead of 1st output (heating output)	991uh
- instead of 2nd output (cooling output)	991uk
Second (relay) position output for switching controllers	991uww

Operation (extension):

Parameter level: Factory setting

SA..	Dead band relay no. to guidance signal (as a % of the regulating distance)	0.0
Sd..	Switching difference relay no. (as a % of the regulating distance)	0.5

Configuration level:

FG. A..E Remote comparison, see data sheet 99axr or reverse side