8049-4

Quick-Start Guide
Positioner Type 8049-4

SCHUBERT SALZER

The device may only be assembled and commissioned by specialist employees who are familiar with the assembly, commissioning and operation of this product.
"Specialist employees" in terms of these installation and operation instructions are persons who, based on their professional training, knowledge, experience as well as their knowledge of the relevant standards, are able to evaluate the work assigned to them and recognise potential dangers.

	WARNING Risk of severe damage to property and personal injury as a result of improper installation. ▶ Observe national safety regulations (e.g. VDE 0100) during assembly, commisioning and operation ▶ All work may only be performed provided that the system is not live
	ATTENTION Always note the technical data!!! (see operating instructions and data sheets)

1.1 Mounting On Linear Actuators and Part-Turn Actuators

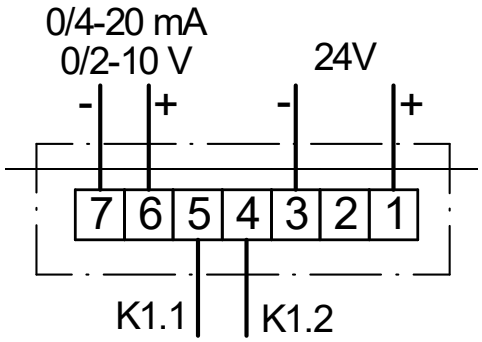
- Put positioner with feedback pin and spring on mounting kit.
- Turning the angle of rotation indicator on 0° (at NO on 90°) at part-turn valve actuator.
- Tighten the three threaded pins in the fastening ring.
- Connect output "Y1" with valve actuator.

	Take care that this connection is sealed properly, as otherwise the solenoid valves in the positioner will operate permanently.

- Connect supply air (port „P“) not oiled, dry industrial air, content of solid < 30µ, pressure dew point 20 K under the lowest ambient temperature
- Open positioner cover and provide the electrical connections.
- Carry through positioner adjustment (see Self Adjusting Mode).
- Close positioner cover.

Dismount the positioner correspondingly in reverse order.

1.2 Electrical Connections



The positioner requires an external voltage supply (24 VDC, filtered, ripple 10% max.). Current consumption is 300 mA max.

The standard set-point signal is 4-20 mA (the positioner can also be configured for a 0-20 mA range).
The load voltage is 2.5 V max.

Depending on version, also other terminal connections (e.g. plug terminal connection) can be used (see wiring diagram in the cover).

1.3 Self Adjusting Mode

	The adjustment (self adjusting) of mounted positioners has been carried through in the factory. Normally it is only required after replacing a positioner or repairing the valve.

After a new or replaced positioner has been mounted to the valve it has to be adjusted as follows:

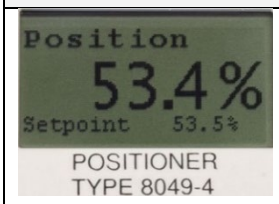
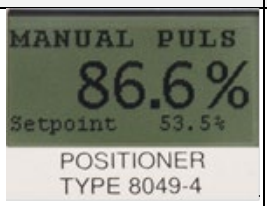
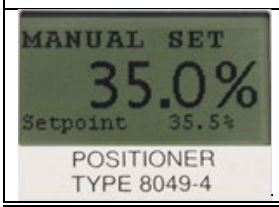
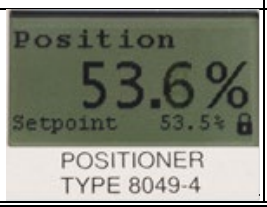
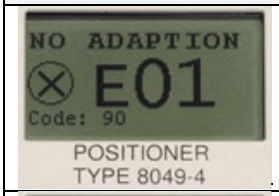
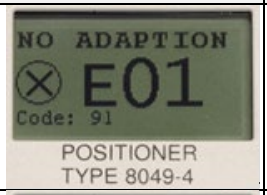
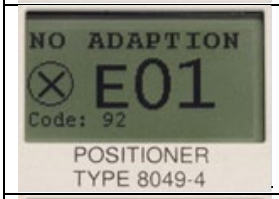
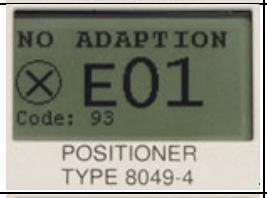
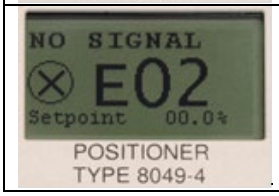
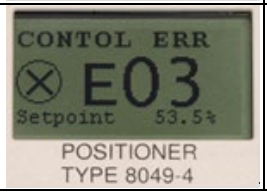
- Press both buttons "IN" and "OUT" for 3 seconds
- The valve opens and closes several times
- After completing the adjustment free from errors the positioner return to control mode automatically.

1.4 Manual Override

Switching over to manual operation requires an “active” positioner, i.e. the positioner has to be powered electrically and connected to the supply air.
Switching over to manual operation mode is carried through by pushing the "OUT" button on the connecting plate for three seconds approximately.
Pushing button "IN" (supply air to actuator) or "OUT" (actuator is vented) opens or closes the valve.
Switching off the manual operation mode is carried through by pushing both buttons for a short moment. The valve moves back to its initial position corresponding to the valid set-point signal.

	If both buttons are actuated more than 2-3 seconds, the positioner switches to self-adjusting mode.

1.5 Fault messages/Operating modes

Code	Operating status	Meaning	Code	Operating status	Meaning
	Automatic mode	Display of the valve position in %.		Manual operation	Display of valve position in %. Positioner does not react to control signal Adjusting the position by pressing the "IN" or "OUT" key
	Manual setpoint setting	Display of valve position in %. Control in operation, Adjustment of the position by pressing the "IN" or "OUT" key.		Key lock	Pressing the "IN", "OUT" and "SEL" key activates/deactivates the key lock
Code	**Error**	**Meaning**	**Code**	**Error**	**Meaning**
	Positioner not adapted	Perform adaption		Positioner not adapted	Failed to determine the stroke during the self-adaption process
	Positioner not adapted	Approaching a stable position during self-adaption failed		Positioner not adapted	Current measured stroke is outside the stroke range of the last self-adaption
	Setpoint signal error	The control signal is outside the valid range		Control error	The valve does not reach its target position

The operating modes and fault messages that are signalled via the group alarm output can be configured with the "**DevConfig**" software.
The output of the "Control fault" only is set as default.