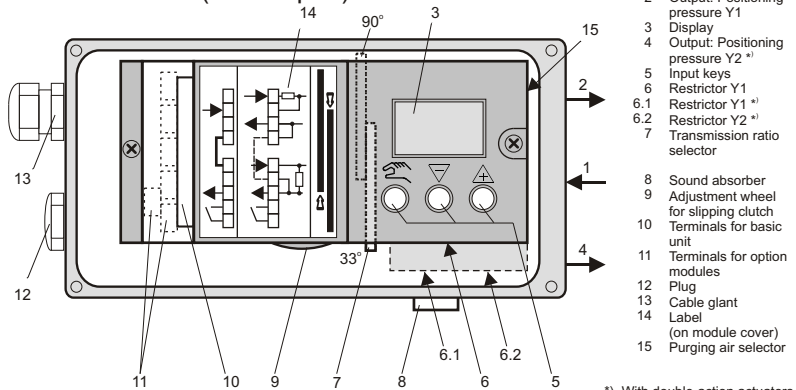


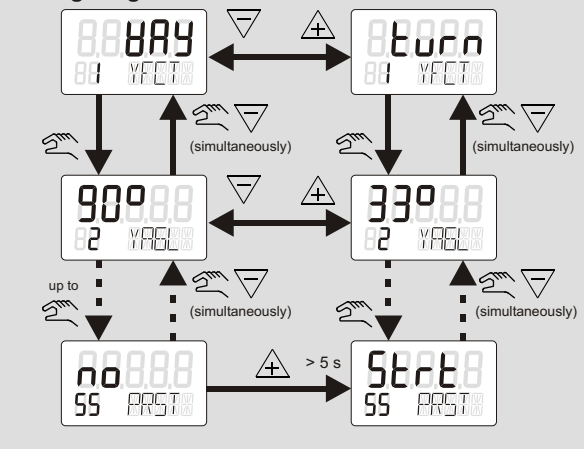
View of device (cover open)



- 1 Input: supply air PZ
- 2 Output: Positioning pressure Y1
- 3 Display
- 4 Output: Positioning pressure Y2 *)
- 5 Input keys
- 6 Restrictor Y1 *)
- 6.1 Restrictor Y1 *)
- 6.2 Restrictor Y2 *)
- 7 Transmission ratio selector
- 8 Sound absorber
- 9 Adjustment wheel for slipping clutch
- 10 Terminals for basic unit
- 11 Terminals for option modules
- 12 Plug
- 13 Cable gland
- 14 Label (on module cover)
- 15 Purging air selector

*) With double-action actuators

Configuring



Changing the input level

Mode	Display
P-manual mode Change position using ∇/Δ	Potentiometer setting [%] Not initialized (can be reached using preset)
Configure Change parameter name using hand icon Change value using ∇/Δ	Parameter value Parameter number Parameter name
Manual mode Change position using ∇/Δ	Position [%] Error code Mode and Setpoint [%]
Automatic	Position [%] Error code Mode and Setpoint [%]
Diagnosis	Diagnosis value Diagnosis number Diagnosis name

Automatic initial start-up (starting with factory setting)

Step	Meaning
1.) Part-turn actuator Linear actuator	Initial start-up sequence with display messages like '8t00n', '900.88', '5t2t8', '55 PRST', '84 INITA'.
2.)	Press for > 5 s Remaining steps carried out automatically
3.)	Direction of action is determined
4.)	Checking of travel and adjustment of zero and stroke (from stop to stop)
5.)	Determination and Display of positioning time down (dxx.x), up (uxx.x) Stop with ∇ Pressing the Δ key initiates leakage measurement
6.)	Determination of minimum increment length
7.)	Optimization of transient response
8.)	Initialization terminated successfully (travel in mm for linear actuators) (angle of rotation for part-turn actuators)

(The gray values in the top display line are examples)

Possible messages		
Display	Meaning	Measures
P.8824 88 RUN 1 P.8824 88 ERROR	Actuator does not move	Acknowledge message using hand icon Check restrictor (6) and open if necessary Drive actuator to working range using ∇/Δ Restart initialization
P.8884 48 d.0.0	Down tolerance band violated	Change gearing (7) Continue using Δ or adjust sliding clutch up to display Continue using Δ or ∇ with "WAY"
8.5E88 88 MIDL	Once the slipping clutch has been adjusted	Linear actuator: Set pick-up lever into vertical position using ∇/Δ Continue using hand icon
P.8983 48 UP 1	Up tolerance band violated	Acknowledge message using hand icon Set the next highest travel value on the lever Restart initialization Additionally possible with rotary actuators: Adjust using ∇/Δ up to display:
P.8198 48 U-d <	Up/down span violated	Acknowledge message using hand icon Set the next lowest travel value on the lever Restart initialization
U.8813 88 NOZZL D.8818 88 NOZZL	Actuator does not move Positioning time is possible to adjust	Adjust positioning time using restrictor(s) Continue using Δ or ∇

See Manual for further messages

Parameter name	Display	Function	Parameter values	Unit	Factory setting	Customer setting
1.YFCT	01 YFCT	Type of actuator	turn (part-turn actuator) WAY (linear actuator) LWAY (linear actuator without sine correction) ncSt (part-turn actuator with NCS) -ncSt (ditto, inv. direction of action) ncSL (linear actuator with NCS)		WAY	
2.YAGL 1)	02 YAGL	Rated angle of rotation of feedback Set transmission ratio selector (7) appropriately (see view of device)	90° 33°	Degrees	33°	
2) 3.YWAY	03 YWAY	Stroke range (optional setting) When used, the value must correspond with the set of the leverage ratio on the actuator Driver pin must be set to the value of the actuator travel or, if this value is not scaled, to the next larger scale value.	OFF 5 10 15 20 (short lever 33°) 25 30 35 (short lever 90°) 40 50 60 70 90 110 130 (long lever 90°)	mm	OFF	
4.INITA	04 INITA	Initialization (automatically)	noini no / #### Strt		no	
5.INITM	05 INITM	Initialization (manually)	noini no / #### Strt		no	
6.SCUR	06 SCUR	Current range of setpoint	0 to 20 mA 4 to 20 mA	0 MA 4 MA	4 MA	
7.SDIR	07 SDIR	Setpoint direction	rising falling	riSE FALL	riSE	
8.SPRA	08 SPRA	Setpoint for start of split range	0,0 to 100,0	%	0,0	
9.SPRE	09 SPRE	Setpoint for end of split range	0,0 to 100,0	%	100	
10.TSUP	10 TSUP	Setpoint ramp up	Auto 0 to 400	s	0	
11.TSDO	11 TSDO	Setpoint ramp down	0 to 400	s	0	
12.SFCT	12 SFCT	Setpoint function	Linear Equal-percentage 1:25, 1:33, 1:50 Inverse equal-percentage 1:25, 1:33, 1:50 Freely adjustable	Lin 1 - 25 1 - 33 1 - 50 n1 - 25 n1 - 33 n1 - 50 FrEE	Lin	
13.SL0 14.SL1 usw. bis 32.SL19 33.SL20	13 SLO (example)	Setpoint turning point at 0% 5% to 95% 100%	0,0 to 100,0	%	0.0 5.0 etc. to 95.0 100.0	
34.DEBA	34 DEBA	Dead band of controller	Auto 0,1 to 10,0	%	Auto	
35.YA	35 YA	Start of manipulated variable limiting	0,0 to 100,0	%	0,0	
36.YE	36 YE	End of manipulated variable limiting	0,0 to 100,0	%	100,0	
37.YNRM	37 YNRM	Standardization of manipulated variable	To mech. travel To flow	MPOS FLOW	MPOS	
38.YDIR	38 YDIR	Direction of manipulated variable for display and feedback	Rising Falling	riSE FALL	riSE	
39.YCLS	39 YCLS	Tight closing with manipulated variable	Without Top only Bottom only Top and bottom	no uP do uP do	no	
40.YCDO	40 YCDO	Value for tight closing, bottom	0,0 to 100,0	%	0,5	
41.YCUP	41 YCUP	Value for tight closing, top	0,0 to 100,0	%	99,5	
42.BIN1 4)	42 BIN1	Function of BI 1	None Only message Block configuring Block configuring and manual Drive valve to position YE Drive valve to position YA Block movement	OFF on bLoc1 bLoc2 uP doWn StoP -on -uP -doWn -StoP NO contact NC contact	OFF	
43.BIN2 4)	43 BIN2	Function of BI 2	None Only message Drive valve to position YA Drive valve to position YA Block movement	OFF on uP doWn StoP -on -uP -doWn -StoP NO contact NC contact	OFF	
44.AFCT 5)	44 AFCT	Alarm function	Without A1=min. A2=max A1=min. A2=min A1=max. A2=max	OFF normal inverted	OFF	
45.A1	45 A1	Response threshold of alarm 1	0,0 to 100,0	%	10,0	
46.A2	46 A2	Response threshold of alarm 2	0,0 to 100,0	%	90,0	
47.4FCT 5)	47 4FCT	Function of alarm output	on fault Fault + not automatic Fault + not automatic + BI ("+" means logical OR operation)	normal inverted	4 4nA 4nAb -4 -4nA -4nAb inverted	4
48.4TIM	48 4TIM	Monitoring time for fault message "control deviation"	Auto 0 to 100	s	Auto	
49.4LIM	49 4LIM	Response threshold for fault message "control deviation"	Auto 0,0 to 100,0	%	Auto	
50.4STRK	50 4STRK	Limit for stroke integral	OFF 1 to 1.00E9		OFF	
51.4DCHG	51 4DCHG	Limit for direction change	OFF 1 to 1.00E9		OFF	
52.4ZERO	52 4ZERO	Limit for end stop monitoring, bottom	OFF 0,0 to 100,0	%	OFF	
53.4OPEN	53 4OPEN	Limit for end stop monitoring, top	OFF 0,0 to 100,0	%	OFF	
54.4DEBA	54 4DEBA	Limit for dead band monitoring	OFF 0,0 to 10,0	%	OFF	
55.PRST	55 PRST	Preset (factory setting) "no" nothing activated "Strt" start of factory setting after pressing key for 5 s "oCAY" display following successful factory setting CAUTION: preset results in "NO INI"	no Strt oCAY			

5) Normal means: High level without fault
Inverted means: Low level without fault

4) NC contact means: action with opened switch or Low level
NO contact means: action with closed switch or High level

1) Parameter appears only if "turn" or "WAY" is selected; at "turn", you cannot select 33°
2) Parameter does not appear if "turn", "LWAY" or "ncS." has been selected with YFCT
3) Turning points only appear with selection SFCT = "FEE"