



D400 Menu Structure 5.0

Parameter	Display	Function	Possible parameter setting	Unit	Factory setting
P1._	STANDARD				
P1.0	ACTUATOR	Actuator type	Actuator type	LINEAR, ROTARY	---
P1.1	AUTO_ADJ	Auto adjust	Autoadjust	Function	---
P1.2	ADJ_MODE	Auto adjust mode	Automatic adjustment mode	FULL,STROKE,CTRL_PAR, ZERO_POS, LOCKED	---
P1.3	TEST	Test	Test	Function	---
P1.4	FIND_DEV	Find device	Find device	DISABLE, ONE TIME, CONTINOUS	---
P1.5	EXIT	Return	Return to operating level	Function	---
					NV_SAVE
P2._	SETPOINT				
P2.0	MIN_RGE	Min setpoint range	Min. setpoint range	4.0 ... 18.4	mA
P2.1	MAX_RGE	Max setpoint range	Max. setpoint range	20.0 ... 5.6	mA
P2.2	CHARACT	Charact. curve	Characteristic curve	LINEAR, 1:25, 1:50, 25:1, 50:1, USERD	---
P2.3	ACTION	Valve action	Effective direction	DIRECT REVERSE	---
P2.4	SHUT_CLS	Shut-off value 0%	Shut-off value 0 %	Off, 0.1... 45.0	%
P2.5	SHUT_OPN	Shut off value 100%	Shut-off value 100 %	55.0 ... 100.0, OFF	%
P2.6	RAMP_UP	Set point ramp, up	Setpoint ramp (up)	OFF, 0 ... 200	---
P2.7	RAMP_DN	Set point ramp, down	Setpoint ramp (down)	OFF, 0 ... 200	---
P2.8	EXIT	Return	Return to operating level	Function	---
					NV_SAVE
P3._	ACTUATOR				
P3.0	MIN_RGE	Min. of stroke range	Operating range, min.	0.0 ... 90.0	%
P3.1	MAX_RGE	Max. of stroke range	Operating range, max.	100.0 ... 10.0	%
P3.2	ZERO_POS	Zero position	Zero position	CLOCKWISE, CTCLOCKWISE	---
P3.3	EXIT	Return	Return to operating level	Function	---
					NV_SAVE
P4._	MESSAGES				
P4.0	TIME_OUT	Control time out	Dead band time limit	OFF, ... 200	---
P4.1	POS_SW1	Position switch 1	Switching point SW1	0.0 ... 100.0	%
P4.2	POS_SW2	Position switch 2	Switching point SW2	0.0 ... 100.0	%
P4.3	SW1_ACTV	Switchpoint 1 enable	Active direction SW1	FALL_BEL, EXCEED	---
P4.4	SW2_ACTV	Switchpoint 2 enable	Active direction SW2	FALL_BEL, EXCEED	---
P4.5	EXIT	Return	Return to operating level	Function	---
					NV_SAVE
P5._	ALARMS				
P5.0	LEAKAGE	Leakage detection	Leakage to actuator	ACTIVE, INACTIVE	---
P5.1	SP_RGE	Setpoint rng monitor	Outside the setpoint range	ACTIVE, INACTIVE	---
P5.2	SENS_RGE	Sens. range monitor	Operating range exceeded	ACTIVE, INACTIVE	---
P5.3	CTRLER	Controller monitor	Controller inactive	INACTIVE, ACTIVE	---
P5.4	TIME_OUT	Control time out	Dead band time limit	ACTIVE, INACTIVE	---
P5.5	STRK_CTR	Stroke counter	Movement counter	ACTIVE, INACTIVE	---
P5.6	TRAVEL	Travel counter	Travel counter	ACTIVE, INACTIVE	---
P5.7	EXIT	Return	Return to operating level	Function	---
					NV_SAVE
P6._	MAN_ADJ				
P6.0	MIN_VR	Min. valve range	Operating range, min.	0.0 ... 100.0	%
P6.1	MAX_VR	Max. valve range	Operating range, max.	0.0 ... 100.0	%
P6.2	ACTUATOR	Actuator type	Actuator type	LINEAR, ROTARY	---
P6.3	SPRNG_Y2	Spring action (Y2)	Spring action (Y2)	CLOCKWISE, CTCLOCKWISE	---
P6.4	DANG_DN	Dead angle close	Dead angle 0 %	0.0 ... 45.0	%
P6.5	DANG_UP	Dead angle open	Dead angle 100 %	55.0 ... 100.0	%
P6.6	BOLT_POS	Bolt position	Actuator position	LEVER, STEM	---
P6.7	EXIT	Return	Return to operating level	Function	---
					NV_SAVE

Parameter	Display	Function	Possible parameter setting	Unit	Factory setting	
P7._	CTRL_PAR					
P7.0	KP UP	KP value, up	KP value (up)	0.1 ... 120.0	---	5.0
P7.1	KP DN	KP value, down	KP value (down)	0.1 ... 120.0	---	5.0
P7.2	TV UP	TV value, up	TV value (up)	10 ... 450	---	200
P7.3	TV DN	TV value, down	TV value (down)	10 ... 450	---	200
P7.4	Y-OFS UP	Y offset, up	Y offset (up)	0.0 ... 100.0	%	48.0
P7.5	Y-OFS DN	Y offset, down	Y offset (down)	0.0 ... 100.0	%	48.0
P7.6	TOL_BAND	Tolerance band (zone)	Tolerance band (zone)	0.3 ... 10.0	%	1.5
P7.7	DEADBAND	Deadband	Dead band	0.10 ... 10.00	%	0.10
P7.8	DB_APPR	Deadband Approach	Dead-band approach	SLOW, MEDIUM, FAST		
P7.9	TEST	Test	Test	Function	---	INACTIVE
P7.10	DB_CALC	Deadband calculat.	Dead-band determination	ON, OFF	---	ON
P7.11	LEAK_SEN	Leakage sensitivity	Leakage sensitivity	1 ... 7200	S	30
P7.12	CLOSE_UP	Pos. time out	Position monitoring	0.0 ... 100.0	%	30.0
P7.13	EXIT	Return	Return to operating level	Function	---	NV_SAVE
P8._	ANLG_OUT					
P8.0	MIN_RGE	Min. range	Min. current range	4.0 ... 18.4	mA	4.0
P8.1	MAX_RGE	Max. range	Max. current range	20.0 ... 5.7	mA	20.0
P8.2	ACTION	Action	Direction of action of characteristic curve	DIRECT, REVERSE	---	DIRECT
P8.3	ALARM	Alarm current	Alarm message	HIGH_CUR, LOW_CUR	---	HIGH_CUR
P8.4	RB_CHAR	Readback character.	Converted characters	DIRECT, RECALC		DIRECT
P8.5	TEST	Test	Test	Function	---	NONE
P8.6	ALR_ENAB	Alarmfunction enabled	Alarm via analog output	ON, OFF	---	ON
P8.7	CLIPPING	Current signal Signal clipping range	Extension of signal output to 3.8 ... 20.5 mA	4.0 ... 20.0; 3.8 ... 20.5 mA	mA	4.0 ... 20.5
P8.8	EXIT	Return	Return to operating level	Function	---	---
P9._	DIG_OUT					
P9.0	ALRM_LOG	Alarm logic	Alarm output logic	ACTIVE_HI, ACTIVE_LO	---	ACTIVE_HI
P9.1	SW1_LOG	Switchpoint 1 logic	Logic SW1	ACTIVE_HI, ACTIVE_LO	---	ACTIVE_HI
P9.2	SW2_LOG	Switchpoint 2 logic	Logic SW2	ACTIVE_HI, ACTIVE_LO	---	ACTIVE_HI
P9.3	TEST	Test	Test	Function	---	NONE
P9.4	EXIT	Return	Return to operating level	Function	---	NV_SAVE
P10._	DIG_IN					
P10.0	FUNCTION	Function select	Function selection	NONE, POS_0%, POS_100%, POS_HOLD	---	NONE
P10.1	EXIT	Return	Return to operating level	Function	---	---
P11._	FS / IP					
P11.0	FAIL_POS	Save position	Safe position	ACTIVE, INACTIVE	---	INACTIVE
P11.1	FACT_SET	Factory setting	Factory Setting	Function	---	START
P11.2	IP-TYP	I/P module type	Type of I/P module	NO_F_POS, F_SAFE_1, F_SAFE_2, F_FREEZE1, F_FREEZE2	---	[CUSTOM]
P11.3 ¹⁾	IP_COMP	IP compensation	IP compensation	ON, OFF	---	ON
P11.4	HART_REV	HART revision	HART Revision	5; 7	---	5
P11.5	EXIT	Return	Return to operating level	Function	---	NV_SAVE

1) Activation only by ABB Service

i NOTE

For detailed information on the parameterization of the device, consult the associated configuration and parameterization instructions.