TZIDC / TZIDC-200
Digital positioner
Customer configuration overview

Date

Plant area

Plant name

Tag No.

Device/ serial no.
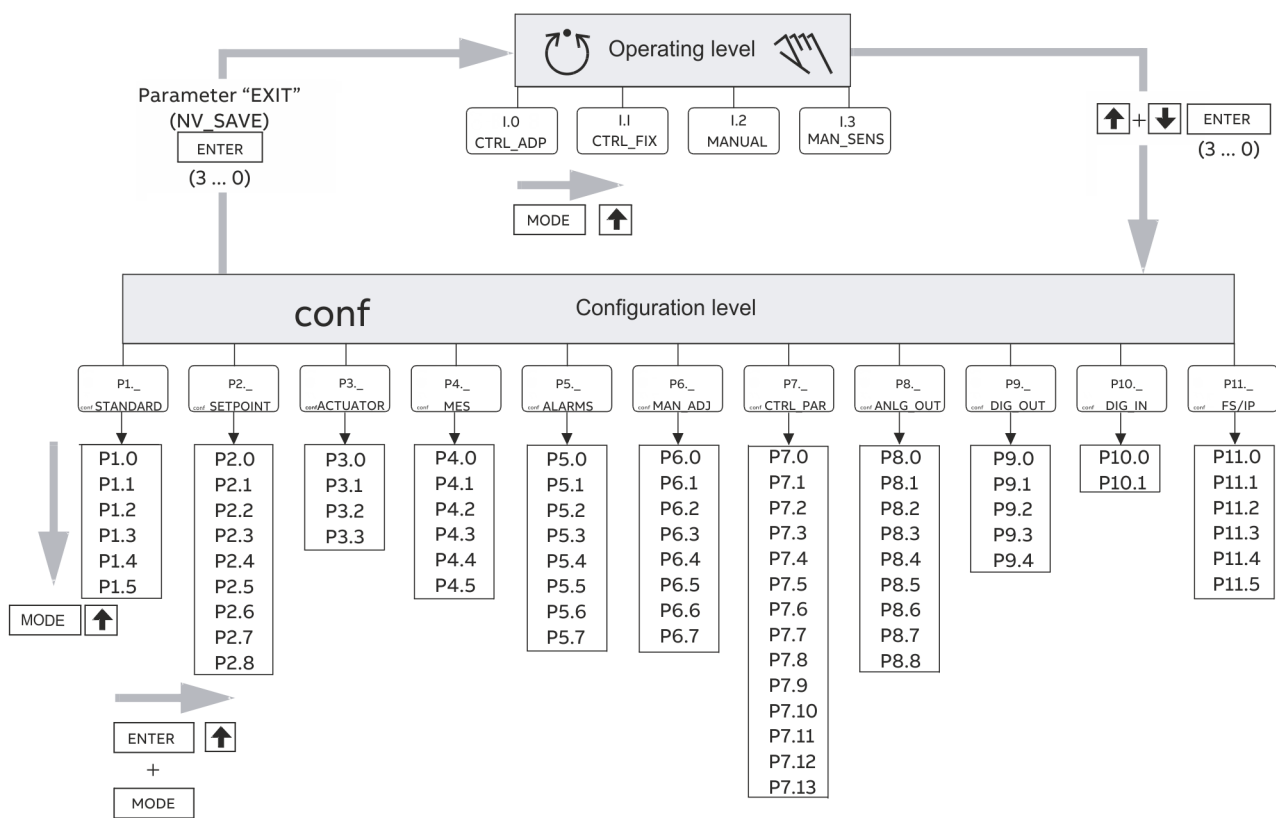
Employees

Figure 1: HART® Parameter Overview

Parameter	Display	Function		Possible parameter setting	Unit	Factory setting	Customer setting / remarks
P1._	**STANDARD**						
P1.0	**ACTUATOR**	Actuator type	Actuator type	LINEAR, ROTARY	---	LINEAR	
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		FULL	
P1.3	**TEST**	Test	Test	Function	---	INACTIVE	
P1.4	**FIND_DEV**	Find device	Find device	DISABLE, ONE TIME, CONTINOUS	---	DISABLE	
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 to 18.4	mA	4.0	
P2.1	**MAX_RGE**	Max setpoint range	Max. setpoint range	20.0 to 5.6	mA	20.0	
P2.2	**CHARACT**	Charact. curve	Characteristic curve	LINEAR, 1:25, 1:50, 25:1, 50:1, USERD	---	LINEAR	
P2.3	**ACTION**	Valve action	Direction of action	DIRECT, REVERSE	---	DIRECT	
P2.4	**SHUT_CLS**	Shut-off value 0%	Shut-off value 0 %	OFF, 0.1 to 45.0	%	1.0	
P2.5	**SHUT_OPN**	Shut off value 100%	Shut-off value 100 %	55.0 to 100.0, OFF	%	OFF	
P2.6	**RAMP UP**	Set point ramp, up	Setpoint ramp (up)	OFF, 0 to 200	---	OFF	
P2.7	**RAMP DN**	Set point ramp, down	Setpoint ramp (down)	OFF, 0 to 200	---	OFF	
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 to 90.0	%	0.0	
P3.1	**MAX_RGE**	Max. of stroke range	Operating range, max.	100.0 to 10.0	%	100	
P3.2	**ZERO_POS**	Zero position	Zero position	CLOCKWISE, CTCLOCKWISE	---	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, to 200	---	OFF	
P4.1	**POS_SW1**	Position switch 1	Switching point SW1	0.0 to 100.0	%	0.0	
P4.2	**POS_SW2**	Position switch 2	Switching point SW2	0.0 to 100.0	%	100.0	
P4.3	**SW1_ACTV**	Switchpoint 1 enable	Active direction SW1	FALL_BEL, EXCEED	---	FALL_BEL	
P4.4	**SW2_ACTV**	Switchpoint 2 enable	Active direction SW2	FALL_BEL, EXCEED	---	EXCEED	
P4.5	**EXIT**	Return	Return to operating level	Function	---	NV_SAVE	
P5._	**ALARMS**						
P5.0	**LEAKAGE**	Leakage detection	Leakage to actuator	ACTIVE, INACTIVE	---	INACTIVE	
P5.1	**SP_RGE**	Setpoint rng monitor	Outside the setpoint range	ACTIVE, INACTIVE	---	INACTIVE	
P5.2	**SENS_RGE**	Sens. range monitor	Operating range exceeded	ACTIVE, INACTIVE	---	INACTIVE	
P5.3	**CTRLER**	Controller monitor	Controller inactive	ACTIVE, INACTIVE	---	INACTIVE	
P5.4	**TIME_OUT**	Control time out	Dead band time limit	ACTIVE, INACTIVE	---	INACTIVE	
P5.5	**STRK_CTR**	Stroke counter	Movement counter	ACTIVE, INACTIVE	---	INACTIVE	
P5.6	**TRAVEL**	Travel counter	Travel counter	ACTIVE, INACTIVE	---	INACTIVE	
P5.7	**EXIT**	Return	Return to operating level	Function	---	NV_SAVE	

Parameter	Display	Function		Possible parameter setting	Unit	Factory settings	Customer settings / remarks
P6._	MAN_ADJ						
P6.0	MIN_VR	Min. valve range	Operating range, min.	0.0 to 100.0	%	0	
P6.1	MAX_VR	Max. valve range	Operating range, max.	0.0 to 100.0	%	100	
P6.2	ACTUATOR	Actuator type	Actuator type	LINEAR, ROTARY	---	LINEAR	
P6.3	SPRNG_Y2	Spring action (Y2)	Spring action (Y2)	CLOCKWISE, CTCLOCKWISE	---	CTCLOCKWISE	
P6.4	DANG_DN	Dead angle close	Dead angle 0 %	0.0 to 45.0	%	0.0	
P6.5	DANG_UP	Dead angle open	Dead angle 100 %	55.0 to 100.0	%	100.0	
P6.6	BOLT_POS	Bolt position	Actuator position	LEVER, STEM	---	LEVER	
P6.7	EXIT	Return	Return to operating level	Function	---	NV_SAVE	
P7._	CTRL_PAR						
P7.0	KP UP	KP value, up	KP value (up)	0.1 to 120.0	---	5.0	
P7.1	KP DN	KP value, down	KP value (down)	0.1 to 120.0	---	5.0	
P7.2	TV UP	TV value, up	TV value (up)	10 to 450	---	200	
P7.3	TV DN	TV value, down	TV value (down)	10 to 450	---	200	
P7.4	Y-OFS UP	Y offset, up	Y offset (up)	0.0 to 100.0	%	48.0	
P7.5	Y-OFS DN	Y offset, down	Y offset (down)	0.0 to 100.0	%	48.0	
P7.6	TOL_BAND	Tolerance band (zone)	Tolerance band (zone)	0.3 to 10.0	%	1.5	
P7.7	DEADBAND	Deadband	Dead band	0.10 to 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 sensivity	Leakage sensitivity	1 to 7200	S	30	
P7.12	CLOSE_UP	Pos. time out	Position monitoring	0.0 to 100.0	%	30.0	
P7.13	EXIT	Return	Return to operating level	Function	---	NV_SAVE	

Parameter	Display	Function		Possible parameter setting	Unit	Factory settings	Customer settings / remarks
P8._	ANLG_OUT						
P8.0	MIN_RGE	Min. range	Min. current range	4.0 to 18.4	mA	4.0	
P8.1	MAX_RGE	Max. range	Max. current range	20.0 to 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	Alarm function enabled	Alarm via analog output	ON, OFF	---	ON	
P8.7	CLIPPING	Current signal Signal clipping range	Extension of signal output to 3.8 to 20.5 mA	4.0 to 20.0; 3.8 to 20.5 mA	mA	4.0 bis 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*	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	

* Activation by ABB Service only