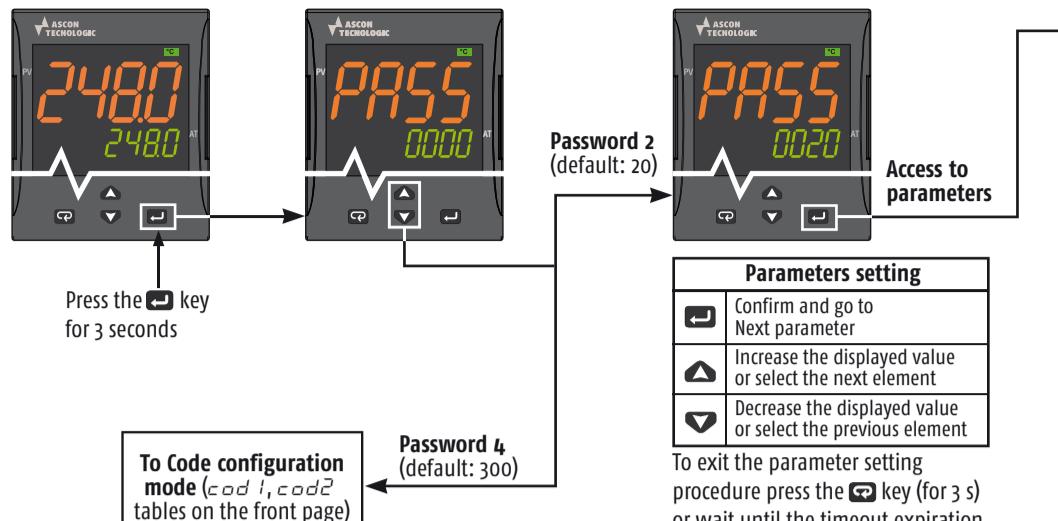




## PARAMETERS SETTING

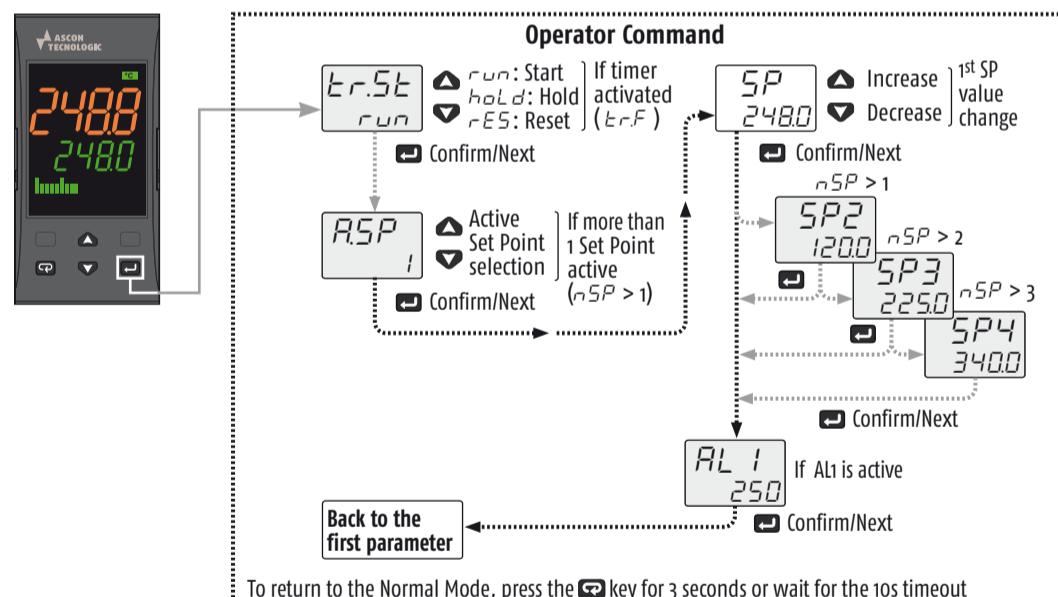
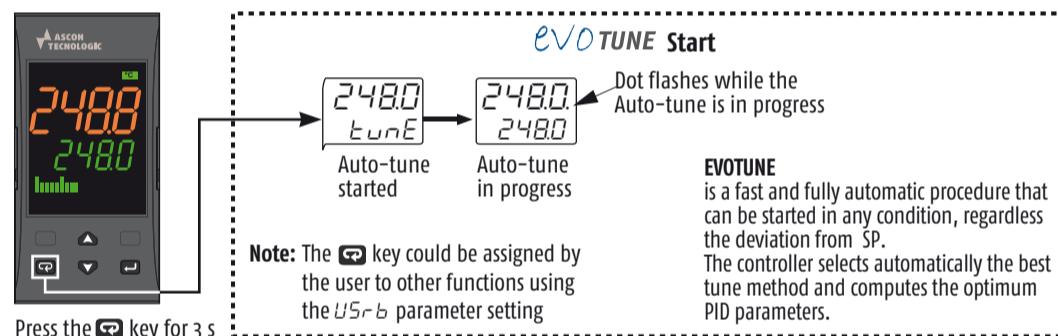
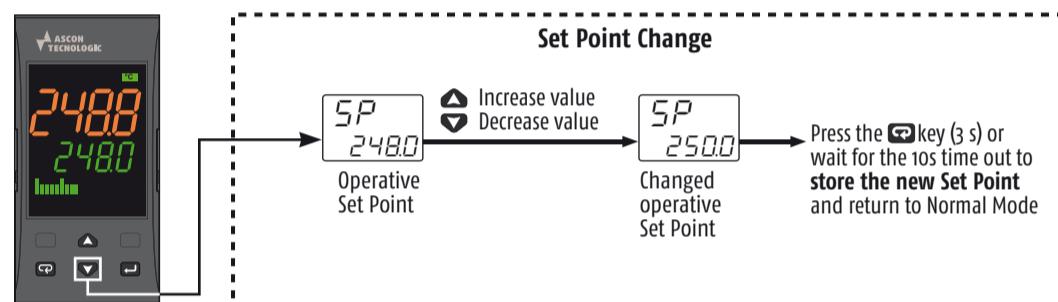
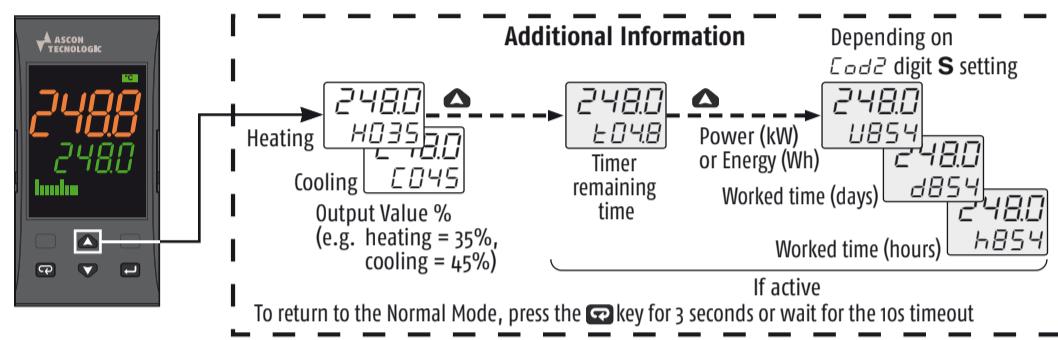


Parameters List (PASS: 20) (in gray the parameters related to optional features)

Group	Param.	Description	Range value or selection list elements	Default	User value	Note
Commands	ErSt	Timer status				Option
	oPer	Operative Mode Selection	reg = Auto, oplc = Manual, stdy = Standby			
	RSP	Set Point Selection	0 = SP, 1 = SP2, 2 = SP3, 3 = SP4	0 = SP		
	EvoE	Start Auto Tune	0 = OFF, 1 = start	0 = OFF		evoTUNE
Control	Pb	Proportional Band	1... 9999 (Engineering Units = E.U.)	20		
	Ei	Integral Time	0... 10000 s	200		Cod / Digit N = 1
	Ed	Derivative Time	0... 1000 s	50		
	HSEt	Hysteresis ON/OFF Control	0... 9999 (E.U.)	1		Cod / Digit N = 0
	tch	Heating output cycle time	0.1... 130 s	20.0		Cod / Digit N = 1
	rco	Relative Cooling Gain	0.01... 99.99	1.00		Cod / Digit N = 1 Cod / Digit O > 4
	tcc	Cooling output cycle time	0.1... 130 s	20.0		Cod / Digit N = 1 Cod / Digit O > 1
Set Point	SP	Set Point 1	-1999... +9999 (E.U.)			
	SP2	Set Point 2				If nSP > 1
	SP3	Set Point 3				If nSP > 2
	SP4	Set Point 4				If nSP > 3
Alarms	SPLL	Set Point min. Value	-1999... SPHL (E.U.)			
	SPHL	Set Point max. Value	SPHL... 9999 (E.U.)			
	nSP	No. of Set Points	1... 4	1		
	RL1	Alarm 1 threshold	AL1L... AL1H			
	RL1L	Alarm 1 low threshold/Low limit	-1999... +9999 (E.U.)	-1999		If digit P of Cod2 is > 1
	RL1H	Alarm 1 high threshold/High limit		9999		
	HRL1	AL1 hysteresis	1... 9999 (E.U.)	1		
Soft Start	RL2	Alarm 2 threshold	AL2L... AL2H			
	RL2L	Alarm 2 low threshold/Low limit	-1999... +9999 (E.U.)	-1999		If digit Q of Cod2 is > 1
	RL2H	Alarm 2 high threshold/High limit		9999		
	HRL2	AL2 hysteresis	1... 9999 (E.U.)	1		
Input	RL3	Alarm 3 threshold	AL3L... AL3H			
	RL3L	Alarm 3 low threshold/Low limit	-1999... +9999 (E.U.)	-1999		If digit R of Cod2 is > 1
	RL3H	Alarm 3 high threshold/High limit		9999		
	HRL3	AL3 hysteresis	1... 9999 (E.U.)	1		
Timer	StP	Soft Start Output value	-100... 100%	0		
	SSt	Soft Start Time	0.00... 8.00 (hh:mm)	0		
	SSc	Low Scale readout	-1999... 9999	-1999		For linear Input types only
	dP	Number of decimals	0... 3 (linear inputs); 0... 1 (other inputs)	0		
	FIL	Measured value Digital filter	OFF; 0.1... 20.0 s	0 = OFF		
	ErF	Timer Type	nonE = Timer not used i.d.A = Delayed ON at start command i.uP.d = Activation ON at Power ON i.d.d = At start command i.P.L = Asymmetrical oscillator, start in OFF i.L.P = Asymmetrical oscillator, start in ON		none	Timer management (Start, Stop, Reset) can be done using the ErSt command or the key (if programmed) or by the DI1/DI2 digital inputs (if programmed).
	ErU	Timer Units	0 = hh:mm 1 = mm:ss 2 = sss.d	1 = mm:ss		
	ErT1	Time 1	00.01... 995.9	1.00		
	ErT2	Time 2	00.00... 995.9	1.00		
If the ordered controller is equipped with the Programmer option, see the "ISTR-FK03P" Addendum						
I/O	IO4F	I/O 4 Function	ON = Transmitter Power Supply OUT4 = SSR out D12 = Dig. In. from contact D1U = 24 VDC Digital Input	ON		
Digital Inputs	dIF1	Digital Input 1 Function	0... 21	0		See the DI1, DI2 functions table
	dIF2	Digital Input 2 Function	0... 21	0		
	u5rb	Key Function	nonE, tunE, oplc, aac, asi, chsp, stby, str.t	tunE		See the Key function table
Display	dICL	Colour of the Process Value display	0 = Change 1 = Red 2 = Green 3 = Orange	2		If Change, the colour is green if PV differs from SP less than RdE, red if higher than RdE and orange if lower than RdE
	RdE	Display change color threshold (when dICL = 0)	0 (OFF)... 9999 (e.u.)			
	dIS	Display Power OFF time (mm:ss)	0FF (display ON) 0... 99.59	0FF		
	bGF	Bar graph Function	nonE, Pou, Po.h, Pr.tu, Pr.td, Pr.tS, ti.uP, ti.dU, rISP	Pou		
Serial communications	Rdd	Instrument Address	1... 254	1		Modbus RTU slave protocol
	bRud	Baud rate	1200, 2400, 9600 baud, 19.2, 38.4 kbaud	9600		
Wattmeter	UoL	Load Voltage	1... 999 (V)	230		If digit S of Cod2 is > 1
	cur	Load Current	1... 9999 (A)			
Password	PAS4	Configuration access Password	0... 999	300		
	PAS2	Parameters access Password	0... 999	20		

Note: To access all the instrument features, please see the "Complete configuration procedure" in the "Engineering Manual". Complete Configuration and Parameter setting can be easily uploaded from the controller and downloaded to other controllers using the Configuration Key and Communication Adapter model: A-01.

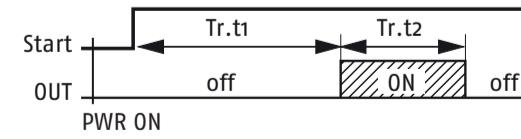
## CONTROLLER OPERATION



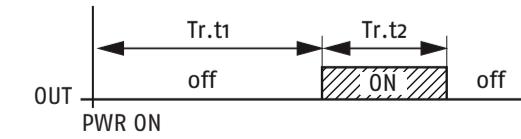
## FUNCTION SELECTION

Timer Types (selected by ErF) (option)

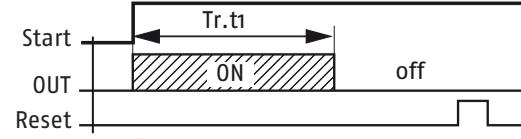
i.d.R Delayed ON at Start command



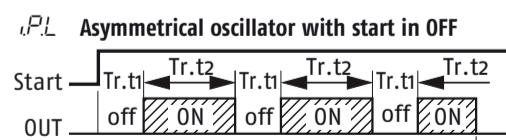
i.uP.d Delayed ON at Power ON



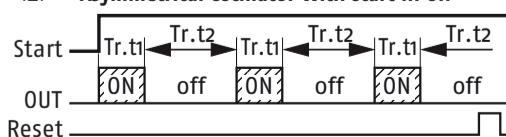
i.d.d At Start command



i.P.L Asymmetrical oscillator with start in OFF



i.L.P Asymmetrical oscillator with start in ON



## dIF - Digital Inputs D1 and D12 Functions

Code displayed	Description
0	Disabled (OFF) (default)
1	Alarm Reset
2	Alarm Acknowledge (ACK)
3	Hold of the measured value
4	Stand by mode
5	Manual Mode
6	Heat with "SP" and Cool with "SP2"
7	Timer Run/Hold/Reset [on transition]
8	Timer Run [on transition]
9	Timer Reset [on transition]
10	Timer Run/Hold
11	Timer Run/Reset
12	Timer Run/Reset with lock at the end of the time count
18	Sequential Set Point selection [on transition]
19	SP/SP2 selection
20	Binary coding for Set Point selection on D1 and D12 (00 = SP, 01 = SP2, 10 = SP3, 11 = SP4)
21	Digital inputs in parallel to the ▲ and ▼ keys (D1 = ▲, D12 = ▼)

## u5rb Key Function

Code displayed	Description
nonE	Not used
tunE	Starts auto tuning functions (default)
oPLC	Manual mode
RRc	Alarm Reset
RS+	Alarm Acknowledge
chSP	Circular Set Point Selection (shows SP, SP2, SP3)
Stby	Stand-by mode
Strt	Starts/Stop/Reset timer