

Displayed process value in the run mode, parameter name or value in programming mode.

When held down for 3 second in the run mode, manual defrost starts. After the specified time with *d.dur* parameter manual defrost finishes. When held down for 3 second manual defrost finishes before the specified time ends. Used for selecting menu and increasing setpoint value of the parameters in the programming mode and for increasing the setpoint value in the run mode. When held down for a few seconds, the change rate accelerates.

When held down for 3 second in the run mode continuous mode starts. After the specified time with *CCon* parameter this mode finishes. When held down for 3 second continuous mode finishes before the specified time ends. Used for selecting parameters and decreasing the setpoint value in the programming mode and for decreasing the setpoint value in the run mode. When held down for a few seconds, the change rate accelerates.

Used for adjusting the value of the setpoint in the run mode and for adjusting the selected parameter in the programming mode. While holding **SET** key, setpoint value of the selected parameter appears and by using **▲** and **▼** keys the value can be adjusted.

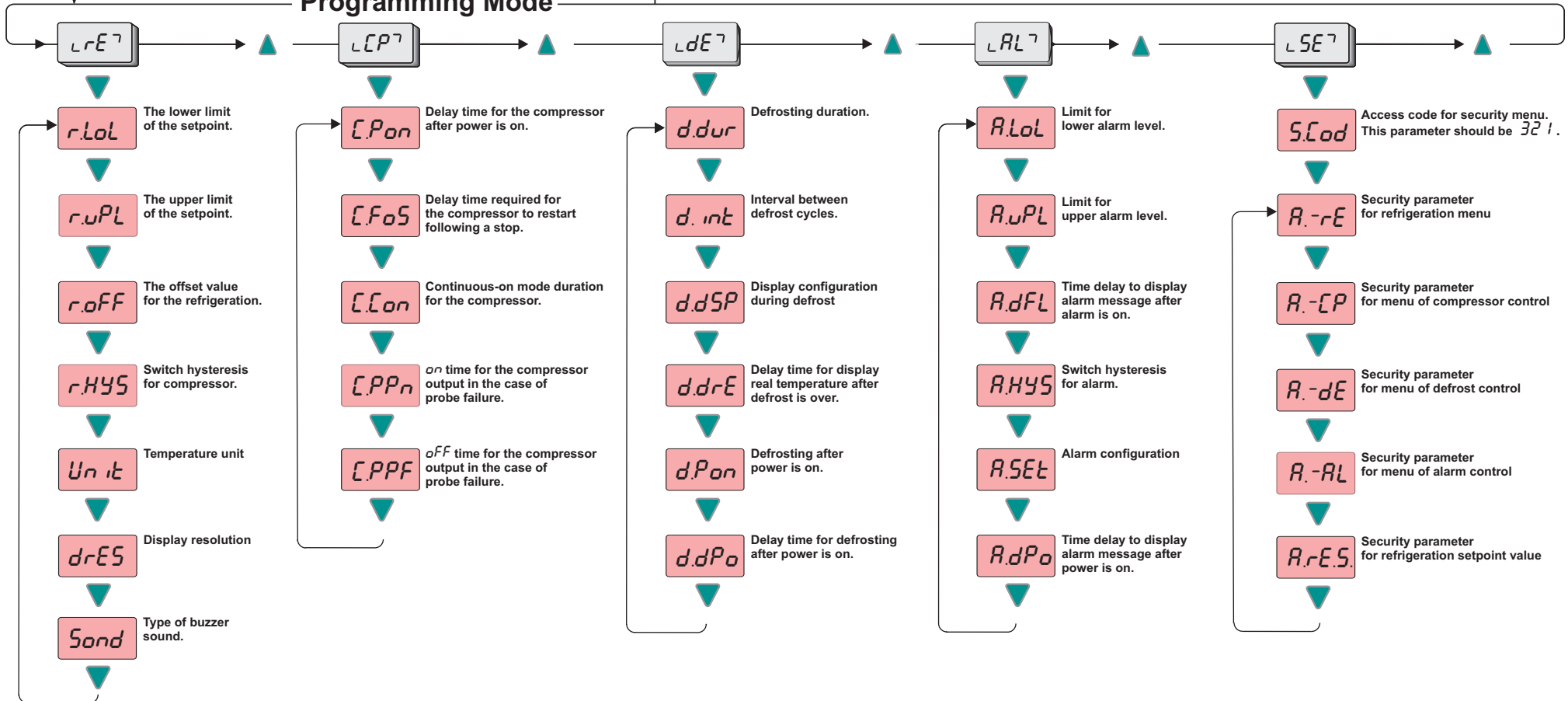
### Run Mode



If both **▲** keys are pressed and held for 3 seconds, programming mode is entered.

If both **▼** keys are pressed, run mode is entered.

### Programming Mode



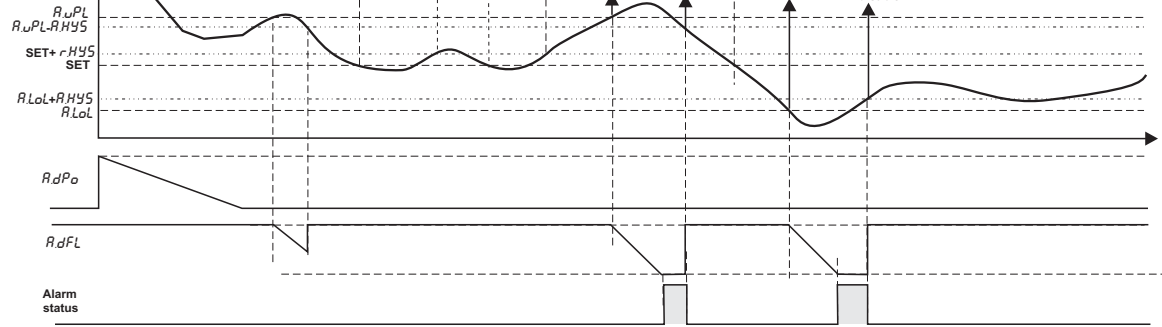
### Error Messages

**PSc** Means, thermostat probe is short circuit or temperature value is higher than the scale.

**PFA** Means, thermostat probe is broken or temperature value is lower than the scale.

**23.5** If process value flashes and warning tone sounds, means, measured value exceeds the adjusted alarm limit.

\*Note: To stop warning tone, press any key.



NOTE : Variables for lower and upper alarm level are determined according to  $R_{SEt}$  parameter. If  $R_{SEt} = R_{Abs}$ , then  $R_{LoL} = R_{LoL}$  &  $R_{uPL} = R_{uPL}$ .  
 If  $R_{SEt} = R_{rEF}$ , then  $R_{LoL} = SET - R_{LoL}$  &  $R_{uPL} = SET + R_{uPL}$ .

Menu of Refrigeration control parameters		MIN	MAX	UNIT	DEF.SET
$r_{LoL}$	The lower limit of the setpoint.	-50.0	$r_{uPL}$	°C	-50.0
$r_{uPL}$	The upper limit of the setpoint.	$r_{LoL}$	110.0	°C	110.0
$r_{oFF}$	The offset value for the refrigeration.	-20.0	20.0	°C	0.0
$r_{HY5}$	Switch hysteresis for compressor.	0.1	20.0	°C	0.1
$Unit$	Temperature unit	°C	°F		°C
$drES$	Display resolution ( $n$ = no decimal point, $y$ = with decimal point.)	$n$	$y$		$n$
$Sond$	Type of buzzer sound ( 16 different warning tones can be selectable. If $Sond=0$ , then warning tone is disable.)	0	16		0
Menu of Compressor control parameters					
$CPon$	Delay time for the compressor after power is on.	0	255	min.	1
$CFoS$	Delay time required for the compressor to restart following a stop.	0	255	min.	1
$CCon$	Continuous-on mode duration for the compressor.	0.0	24.0	h.	0.1
$CPPn$	on time for the compressor output in the case of probe failure.	0	255	min.	0
$CPPF$	off time for the compressor output in the case of probe failure.	0	255	min.	1
Menu of Defrost control parameters					
$d.dur$	Defrosting duration.(If $d.dur=0$ , then defrost is disable.)	0	255	min.	1
$d.int$	Interval between defrost cycles.	1	120	h.	1
$d.dSP$	Display configuration during defrost ( $rERL$ = Real temperature is displayed during defrost. $dEF$ = $dEF$ message is displayed during defrost.)	$rERL$	$dEF$		$dEF$
$d.drE$	Delay time for display real temperature after defrost is over.	0	255	min.	1
$d.Pon$	Defrosting after power is on.( $y$ =Defrosting begins when power is on, $n$ =Defrosting doesn't begin when power is on.)	$n$	$y$		$n$
$d.dPo$	Delay time for defrosting after power is on.	0	30	min.	1
Menu of Alarm control parameters					
$R_{LoL}$	Limit for lower alarm level.	-50.0	$R_{uPL}$	°C	-50.0
$R_{uPL}$	Limit for upper alarm level.	$R_{LoL}$	110.0	°C	110.0
$R_{dFL}$	Time delay to display alarm message after alarm is on.	0	255	min.	0
$R_{HY5}$	Switch hysteresis for alarm.	0	15	°C	2
$R_{SEt}$	Alarm configuration ( $R_{Abs}$ = Absolute alarm. Alarm values are $R_{LoL}$ and $R_{uPL}$ . $R_{rEF}$ = Relative alarm. Alarm values are $SEt - R_{LoL}$ and $SEt + R_{uPL}$ .)	$R_{Abs}$	$R_{rEF}$		$R_{Abs}$
$R_{dPo}$	Time delay to display alarm message after power is on.	0	23.5	hr.	0.3
Menu of Parameter security					
$R_{-rE}$	Security parameter for refrigeration menu ( $nOnE$ = menu is invisible, $P_{YES}$ = Parameters of menu are changeable, $P_{nO}$ = Parameters of menu are only visible.)				
$R_{-CP}$	Security parameter for menu of compressor control ( $nOnE$ = menu is invisible, $P_{YES}$ = Parameters of menu are changeable, $P_{nO}$ = Parameters of menu are only visible.)				
$R_{-dE}$	Security parameter for menu of defrost control ( $nOnE$ = menu is invisible, $P_{YES}$ = Parameters of menu are changeable, $P_{nO}$ = Parameters of menu are only visible.)				
$R_{-RL}$	Security parameter for menu of alarm control ( $nOnE$ = menu is invisible, $P_{YES}$ = Parameters of menu are changeable, $P_{nO}$ = Parameters of menu are only visible.)				
$R_{rES}$	Security parameter for refrigeration setpoint value ( $P_{YES}$ = Setpoint value is invisible, $P_{nO}$ = Setpoint value is only visible.)				

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