

Refrigerated - Carel PB00 Controller Parameters

Code	Parameter	Model	UOM	Type	Max	Min	Def.	Cossiga
Pw	password	MSYF	-	C	200	0	22	
/2	Measurement stability	MSYF	-	C	15	1	4	
/3	Probe display response	MSYF	-	C	15	0	0	
/4	Virtual probe	MSYF	-	C	100	0	0	
/5	Select °C or °F	MSYF	flag	C	1	0	0	
/6	Decimal point	MSYF	flag	C	1	0	0	
/tI	Display on internal terminal	MSYF	-	C	6	1	1	
/tE	Display on external terminal	MSYF	-	C	6	0	0	
/P	Select type of probe	MSYF	-	C	2	0	0	
/A2	Configuration of probe	M-YF	-	C	3	0	2	
		-S--	-	C	3	0	0	
/A3	Configuration of probe 3	MSYF	-	C	3	0	0	
/A4	Configuration of probe 4	MSYF	-	C	3	0	0	
/c1	Calibration of probe 1	MSYF	°C/°F	C	20	-20	0	1.5 *
/c2	Calibration of probe 2	MSYF	°C/°F	C	20	-20	0	
/c3	Calibration of probe 3	MSYF	°C/°F	C	20	-20	0	
/c4	Calibration of probe 4	MSYF	°C/°F	C	20	-20	0	

St	Temperature set point	MSYF	°C/°F	F	r2	r1	0	4
rd	Control delta	-SYF	°C/°F	F	20	0.1	2	
rn	Dead Band	-SYF	°C/°F	C	0	60	4	
rr	Reverse DiffI for Control with Dead Band	-SYF	°C/°F	C	0.1	20	2	
r1	Minimum set point allowed	MSYF	°C/°F	C	r2	-50	-50	
r2	Maximum set point allowed	MSYF	°C/°F	C	200	r1	60	
r3	Operating mode	-SYF	flag	C	2	0	0	0
r4	Automatic night-time set point variation	MSYF	°C/°F	C	20	0	3	
r5	Enable temperature monitoring	MSYF	flag	C	1	0	0	
rt	Temperature monitoring interval	MSYF	hours	F	999	0	-	
rH	Maximum temperature read	MSYF	°C/°F	F	-	-	-	
rL	Minimum temperature read	MSYF	°C/°F	F	-	-	-	

c0	Comp. and fan start delay on start-up	-SYF	min	C	15	0	0	
c1	Minimum time between successive starts	-SYF	min	C	15	0	0	
c2	Minimum compressor OFF time	-SYF	min	C	15	0	0	
c3	Minimum compressor ON time	-SYF	min	C	15	0	0	
c4	Duty setting	-SYF	min	C	100	0	0	
cc	Continuous cycle duration	-SYF	hours	C	15	0	0	
c6	Alarm bypass after continuous cycle	-SYF	hours	C	15	0	2	
c7	Maximum pump down time	-SYF	min	C	30	0	0	
c8	Comp. start delay after open PD valve	-SYF	sec	C	60	0	5	
c9	Enable autostart function in PD	-SYF	flag	C	1	0	0	
c10	Select pump down by time or pressure	-SYF	flag	C	1	0	0	
c11	Delayed compressor delay	-SYF	sec	C	250	0	4	

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dt1	End defrost temperature, main evap.	-SYF	°C/°F	F	200	-50	4	
dt2	End defrost temperature, aux evap.	-SYF	°C/°F	F	200	-50	4	
dP1	Maximum defrost duration, main evap.	-SYF	min	F	250	1	30	20
dP2	Maximum defrost duration, aux evap.	-SYF	min	F	250	1	30	20
d3	Defrost start delay	-SYF	Min	C	250	0	0	
d4	Enable defrost on start-up	-SYF	flag	C	1	0	0	
d5	Defrost delay on start-up	-SYF	min	C	250	0	0	
d6	Display on hold during defrost	-SYF	-	C	2	0	1	2
dd	Dripping time after defrost	-SYF	min	F	15	0	2	
d8	Alarm bypass after defrost	-SYF	hours	F	15	0	1	
d8d	Alarm bypass after door open	-SYF	min	C	0	250	0	
d9	Defrost priority over compressor protectors	-SYF	flag	C	1	0	0	
d/1	Display defrost probe	MSYF	°C/°F	F	-	-	-	
d/2	Display defrost probe	MSYF	°C/°F	F	-	-	-	
dC	Time base for defrost	-SYF	flag	C	1	0	0	
d10	Compressor running time	-SYF	hours	C	250	0	0	
d11	Running time temperature threshold	-SYF	°C/°F	C	20	-20	1	
d12	Advanced defrost	-SYF	-	C	3	0	0	
dn	Nominal defrost duration	-SYF	-	C	100	1	65	
dH	Proportional factor variat. in .dl.	-SYF	-	C	100	0	50	

A0	Alarm and fan differential	MSYF	°C/°F	C	20	0.1	2	
A1	Type of threshold .AL. and .AH.	MSYF	flag	C	1	0	0	
AL	Low temperature alarm threshold	MSYF	°C/°F	F	200	-50	0	
AH	High temperature alarm threshold	MSYF	°C/°F	F	200	-50	0	
Ad	Low and high temperature alarm delay	MSYF	min	F	250	0	120	
A4	Digital input 1 configuration	-SYF	-	C	12	0	0	
		M	-	C	3	12	0	
A5	Digital input 2 configuration	MSYF	-	C	12	0	0	
A6	Stop compressor from external alarm	-SYF	min	C	100	0	0	
A7	External alarm detection delay	-SYF	min	C	250	0	0	
A8	Enable alarms .Ed1. and .Ed2.	-SYF	flag	C	1	0	0	
Ado	Light management mode with door switch	MSYF	flag	C	1	0	0	N/A
Ac	High condenser temperature alarm	-SYF	°C/°F	C	200	0	70	
AE	High condens. temperature alarm differential	-SYF	°C/°F	C	20	0.1	5	
Acd	High condens. temperature alarm delay	-SYF	min	C	250	0	0	
AF	Light sensor OFF time	-SYF	sec	C	250	0	0	
ALF	Antifreeze alarm threshold	MSYF	°C/°F	C	-50	200	-5	
ADF	Antifreeze alarm delay	MSYF	min	C	0	15	1	

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F1	Fan start temperature	---F	°C/°F	F	200	-50	5	
F2	Fan OFF with compressor OFF	---F	flag	C	1	0	1	0
F3	Fans in defrost	---F	flag	C	1	0	1	0
Fd	Fan OFF after dripping	---F	min	F	15	0	1	
F4	Condenser Fan stop Temperature	MSYF	°C/°F	C	-50	200	40	
F5	Condenser Fan start Temperature	MSYF	°C/°F	C	0.1	20	5.0	

H0	Serial address	MSYF	-	C	207	0	1	
H1	Function of relay 4	MSYF	flag	C	10	0	1	3
H2	Disable keypad/IR	MSYF	flag	C	6	1	1	
H3	Remote control enabling code	MSYF	-	C	255	0	0	
H4	Disable buzzer	MSYF	flag	C	1	0	0	
H5	Function of relay 5	MSYF	-	C	10	0	1	3
H6	Lock keypad	MSYF	-	C	255	0	0	
H7	Select keypad	MSYF	flag	C	1	0	0	N/A
H8	Select activation of output with time band	MSYF	flag	C	0	1	0	
H9	Enable set point variation with time band	MSYF	flag	C	0	1	0	
Hdh	Anti-sweat heater offset	MSYF	°C/°F	C	-50	200	0.0	

UOM = Unit of measure; Def. = Default value.

* May need to be calibrated

Changes on first production

rd Was 0.2 now 2.0
 dp1 now 20 min
 dp2 now 20 min

Quick access

(Please refer to the manual or info sheet for more detail)



SET-Point (Desired temperature value)

- Press the "set" button for more than one second to display the set point
- Press the "UP" or "Down" buttons to increase or decrease the set point value
- Press the "set" key to confirm the new value



Accessing the Configuration Parameters (Type C)

- Press the "prg/mute" Button and the "set" button
- at the same time for more than 5 seconds
- The display will display "00" (Password Prompt)
- Press the keys "UP" and "DOWN" buttons to display '22' (Default Password)
Confirm by pressing the "set" button
- ** Press "UP" and "DOWN" to go to the parameter required
- Press the "set" button to display the Value
- Increase or decrease the value using the "UP" or "DOWN" buttons
- Press the "set" button to temporarily save the new value
- Continue on to the next parameter to be changed and repeat steps **
- PLEASE NOTE : If the parameter has a sub-parameters – Press "set" to display the first sub-parameter
- Use the "up" and "Down" buttons to display the sub-parameters
- Press the "set" button to display the value for the sub-parameter
- Increase or decrease the value using the "UP" or "DOWN" buttons
- Press "set" button to temporarily save the value and return to the sub-parameters
- Press "prg/mute" to return to the display of the parent parameter



IMPORTANT – You must press the "prg/mute" button for at least 5 seconds to store the new values and exit the Parameter Modification