CAREL

PJEZ easy controller

Set Point

PRESS & HOLD "SET" for 1 Second
"SET POINT" Value will be displayed

PRESS ARROW "UP" or "DOWN"
to set the desired value. **

PRESS "SET" to confirm the value

Frequent (F) Parameters

PRESS & HOLD "SET" for
approx 5 seconds

"PS" will be displayed

A) PRESS "ARROW UP" or "DOWN"
to select the parameter to be changed.
eg rd = differential

B) PRESS "SET"

The Value Set for this parameter will
be displayed

C) PRESS ARROW "UP" or
"DOWN" to set the desired value.**

D) PRESS "SET"
to confirm the value

REPEAT A-D Until all desired
parameters have been set.

PRESS & HOLD "SET" until temp is
displayed (approx 5 seconds)
to confirm all changes

All Parameters

PRESS & HOLD "SET"
for approx 5 seconds

"PS" will be displayed

PRESS "SET" then "ARROW UP" till
the password value "22" is displayed

PRESS "SET" to confirm

"PS" will be displayed

A) PRESS "ARROW UP" or "DOWN" to
select the code the of parameter to be
changed. eg rd = differential

B) PRESS "SET"
The Value Set for this parameter will be
displayed

C) PRESS "ARROW UP" or "DOWN"
to set the desired value.

D) PRESS "SET"
to confirm the value

REPEAT A-D Until all desired
parameters have been set.

PRESS & HOLD "SET" until temp is
displayed (approx 5 seconds)
to confirm all changes

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Technical literature can be downloaded from www.carel.com

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Please note: Please read these instruction in conjunction with the parameter list. It is recommended that the controllers be programmed before connecting or activating the plant to be controlled (eg. compressors)
** If the controller is keypad locked the value will not change. See parameter H2.

CAREL

PJEZ easy summary of operating parameters

Code	Parameter	Unit	Type	Min.	Max.	Def.	New
/2	Probe measurement stability	-	C	1	15	4	
/4	Select display probe	-	F	1	3	1	
/5	Select °C or °F (0 = °C)	-	C	0	1	0	
/6	Decimal point (0 = enabled, 1 = disabled)	-	C	0	1	0	
/C1	Calibration of probe 1	°C/°F	F	-127	+127	0	
/C2	Calibration of probe 2	°C/°F	F	-127	+127	0	
/C3	Calibration of probe 3	°C/°F	F	-127	+127	0	
St	Temperature set point	°C/°F	S	r1	r2	4	
rd	Controller differential	°C/°F	F	0	19	2	
r1	Minimum Set Point allowed	°C/°F	C	-50	r2	-50	
r2	Maximum Set Point allowed	°C/°F	C	r1	+150	90	
r3	Mode 0=cool with defrost,1=cool only, 2=heating	flag	C	0	2	0	
r4	Value to increase Set Point by from Digital Input	°C/°F	C	0	20	3	
c0	Comp. and fan start delay at power up	min	C	0	100	0	
c1	Minimum time between 2 comp starts	min	C	0	100	0	
c2	Minimum compressor OFF time	min	C	0	100	0	
c3	Minimum compressor ON time	min	C	0	100	0	
c4	Duty setting	min	C	0	100	0	
cc	Duration of continuous cycle	hours	C	0	15	4	
c6	Alarm bypass after continuous cycle	hours	C	0	15	2	
d0	Defrost type (0=elec / temp,1= H.Gas / temp	-	C	0	4	0	
	2 = elec / time, 3 = hot gas / time …)						
dI	Interval between defrosts (if not using real time)	hours	F	0	199	8	
dt	End defrost temperature, (if d0 = 0 or 1)	°C/°F	F	-50	127	4	
dP	Maximum defrost duration	min	F	1	199	30	
d4	Defrost at power up (0 = no, 1 = yes)	-	C	0	1	0	
d5	Defrost delay at power up (if d4=1)	min	C	0	199	0	
d6	Display during def.(0=dF (flash),1=locked)	-	C	0	1	1	
dd	Dripping time after defrost	min	F	0	15	2	
d8	Bypass alarms after defrost	hours	F	0	15	1	
d8d	Alarm delayafter door open - from dig input	hours	C	0	250	0	
d9	Defrost priority over compressor protection	-	C	0	1	0	
d/	Display defrost probe temp d/1=def P1,d/2=def P2)	°C/°F	F	-	-	-	
dC	Time basis for defrost (0=hr/min, 1=min/sec)	-	C	0	1	0	
A0	Alarm and fan differential	°C/°F	C	-20	20	0	
AL	Low alarm temp (if A0=<0 absolute, if A0>0 relative)	°C/°F	F	-50	150	-50	
AH	High alarm temp (if A0=<0 absolute, if A0>0 relative)	°C/°F	F	-50	150	150	
Ad	Low and high temperature alarm delay	min	C	0	199	0	
A4	Configuration of digital input 1	-	C	0	11	0	
A7	External alarm delay if using digital input	min	C	0	199	0	
A8	Enable alarm 'Ed' (defrost end on time)	flag	C	0	1	0	
Ac	High condenser temperature alarm set point	°C/°F	C	-50	150	70	

Code	Parameter	Unit	Type	Min.	Max.	Def.	New
AE	High cond. temp. alarm differential	°C/°F	C	0.1	20	5	
Acd	High cond. temp. alarm delay	min	C	0	250	0	
F0	Enable evaporator fan control	flag	C	0	1	0	
F1	Evaporator fan control set point	°C/°F	F	-50	127	5	
F2	Fans cycle with comp (0=no, 1=yes)	flag	C	0	1	1	
F3	Fans in defrost (0 = on, 1 = off)	flag	C	0	1	1	
Fd	Fans delay after dripping	min	F	0	15	1	
H0	Serial address	-	C	0	207	1	
H1	AUX output configuration	flag	C	0	3	0	
H2	Enable keypad (0=enabled, 1 = disabled)	flag	C	0	1	1	
H4	Disable buzzer (0=enabled, 1 = disabled)	flag	C	0	1	0	
H5	ID code (read-only)	flag	F	0	31	-	
EZY	Select set of default parameters	-	C	0	4	0	

EZY parameter

PJEZ (S, X)	EZY = 1: normal temperature, no defrost
	EZY = 2: normal temperature with timed defrost
	EZY = 3: normal temperature, heating output
	EZY = 4: normal temperature, defrost controlled by temperature (d0 = 4)
PJEZ (C, Y)	EZY = 1: low temperature with hot gas defrost
	EZY = 2: low temperature with automatic night-time set point variation via digital input
	EZY = 3: low temperature with management of alarm via digital input
	EZY = 4: low temperature, defrost controlled by temperature (d0 = 4

ALARM TABLE

Alarm code	Buzzer & alarm relay	LED	Description	Parameters involved
E0	active	ON	probe 1 error (control)	-
E1	not active	ON	probe 2 error (defrost)	[d0 = 0/1/4] [F0 = 1]
E2	not active	ON	probe 3 error (cond)	[A4 = 10]
IA	active	ON	external alarm	[A4 = 1] [+A7]
dOR	active	ON	open door alarm	[A4 = 7/8] [+A7]
LO	active	ON	low temperature alarm	[AL] [Ad]
HI	active	ON	high temperature alarm	[AH] [Ad]
EE	not active	ON	unit parameter error	-
EF	not active	ON	operating parameter error	-
Ed	not active	ON	defrost ended by timeout	[dP] [dt] [d4] [A8]
dF	not active	OFF	defrost running	[d6 = 0]
cht	not active	ON	dirty condenser pre-alarm	[A4 = 10]
CHt	active	ON	dirty condenser alarm	[A4 = 10]
EtC	not active	ON	clock alarm	if bands active