

ir33 CAREL series digital control parameter list

COUNTERS



CONCEPT LINE range and STANDARD BENEFIT range

Updated parameter list available for all CONCEPT LINE refrigerated and freezer counters from serial number 74200001, except for all ASIA range.

Updated parameter list available for pizza counters with pnc number 727148, 727149 and 727150.

Updated parameter list available also for all bench type show cases from serial number 82000001.

Updated parameter list available for all STANDARD BENEFIT refrigerated and freezer counters from serial number 74200001.

- 1 - ON/OFF button
(UP/AUX button on some version to increase values)
- 2 - DOWN button to decrease values
- 3 - SET button
- 4 - PRG/MUTE button
- 5 - SERVICE ALARM icon
- 6 - HIGH TEMPERATURE Alarm icon
- 7 - DEFROST icon
- 8 - COMPRESSOR ON icon
- 9 - FAN ON/OFF icon
- 10 - Auxiliary input icon (if present)



DISPLAY OUTPUT SIGNALS

ICON	Function	ON	OFF	Blink
	COMPRESSOR	Compressor ON	Compressor OFF	Delay to start
	FAN	Fan ON	Fan OFF	Delay to start
	DEFROST	Defrost in progress	Defrost not required	Defros request
AUX	AUX	Auxiliary output AUX active	Auxiliary output AUX no active	Anti-sweat heater function active
	ALARM	Delay internal alarm(before the expiry of the time A7)	No alarm present	Alarms is normal operation (ie. high/low temp)or alarm from ext. Digital input immediate or delayed
	SERVICE		No malfunction	Malfunction (probe fault)

KEYPAD BUTTONS

BUTTON	Press the button alone	Pressing together with other buttons		
Prg mute	<ul style="list-style-type: none"> If pressed for more than 5Sec. accesses the menu for setting type "F"(frequent) parameters In event of alarm: silences the audible alarm (buzzer) and disables the alarm relay 	<ul style="list-style-type: none"> If pressed for more than 5 S together with the SET button, accesses the menu for setting the type "C" (configuration) password is 11 If pressed for more than 5S together with the UP/AUX button resets any alarm with manual reset 	START-UP: if pressed for more than 5S at start-up starts the default parameters setting	Automatic address assignment: if pressed for 1 S enters the automatic serial address assigning procedure
	If pressed for more than 1 S., enable/disables the auxiliary output	<ul style="list-style-type: none"> If pressed for more than 5 S together with PGR/MUTE button, reset any alarm with manual reset 		
	If pressed for more than 5 S., enable/disables a manual defrost	<ul style="list-style-type: none"> If pressed for more than 5 S together with UP/AUX button, enables/disables the continuous cycle operation 		
Set	If pressed for more than 1 S, displays and/or set the set point	<ul style="list-style-type: none"> If pressed for more than 5 S together with PGR/MUTE button, accesses the menu for setting the type "C" parameters (configuration) 		

Code	Description	parameter map code	Ref.	Brand	ir33 Spare part code
726139	2 DOOR REFRIGERATED TABLE -2C	411R10600	A	To brand	091609
726140	1 DOOR + 2 DRAWER REFRIGERATED TABLE -2C	411R10600	A	To brand	091609
726182	2 DOOR REFRIG. TABLE -2C WITH SPLASHBACK	411R10600	A	To brand	091609
726202	2 DOOR REFRIGERATED TABLE -2C - REMOTE	411R10700	B	To brand	091609
726203	1 DOOR+2 DRAWER REFRIG. TABLE -2C-REMOTE	411R10700	B	To brand	091609
726668	2 DOOR REFRIGERATED TABLE NO TOP -2C	411R10600	A	To brand	091609
726006	2 DOOR REFRIGERATED TABLE -2C - S/S	411R10600	A	To brand	091609
727009	2 DOOR DIG. FREEZER TABLE -20°C - S/S	411R10800	C	To brand	091642
728512	2-DOOR DIG. FREEZER TABLE -20°C	411R10800	C	To brand	091642
728518	1-DOOR+2x½ DRAW. DIG.FREEZER TABLE -20°C	411R10800	C	To brand	091642
726141	3 DOOR REFRIGERATED TABLE -2C	411R10600	A	To brand	091609
726145	2 DOOR + 2 DRAWER REFRIGERATED TABLE -2C	411R10600	A	To brand	091609
726146	1 DOOR + 4 DRAWER REFRIGERATED TABLE -2C	411R10600	A	To brand	091609
726188	3 DOOR REFRIG. TABLE -2C WITH SPLASHBACK	411R10600	A	To brand	091609
726210	3 DOOR REFRIGERATED TABLE -2C - REMOTE	411R10700	B	To brand	091609
726211	2 DOOR+2 DRAWER REFRIG. TABLE -2C-REMOTE	411R10700	B	To brand	091609
726212	1 DOOR+4 DRAWER REFRIG. TABLE -2C-REMOTE	411R10700	B	To brand	091609
726669	3 DOOR REFRIGERATED TABLE NO TOP -2C	411R10600	A	To brand	091609
727007	3 DOOR REFRIGERATED TABLE -2C - S/S	411R10600	A	To brand	091609
727010	3 DOOR DIG. FREEZER TABLE -20°C - S/S	411R10800	C	To brand	091642
728517	3-DOOR DIG. FREEZER TABLE -20°C	411R10800	C	To brand	091642
728519	2-DOOR+2x½ DRAW. DIG.FREEZER TABLE -20°C	411R10800	C	To brand	091642
726147	4 DOOR REFRIGERATED TABLE -2C	411R10600	A	To brand	091609
726148	3 DOOR + 2 DRAWER REFRIGERATED TABLE -2C	411R10600	A	To brand	091609
726170	2 DOOR + 4 DRAWER REFRIGERATED TABLE -2C	411R10600	A	To brand	091609
726197	4 DOOR REFRIG. TABLE -2C WITH SPLASHBACK	411R10600	A	To brand	091609
726213	4 DOOR REFRIGERATED TABLE -2C - REMOTE	411R10700	B	To brand	091609
726220	3 DOOR+2 DRAWER REFRIG. TABLE -2C-REMOTE	411R10700	B	To brand	091609
726221	2 DOOR+4 DRAWER REFRIG. TABLE -2C-REMOTE	411R10700	B	To brand	091609
726670	4 DOOR REFRIGERATED TABLE NO TOP -2C	411R10600	A	To brand	091609
727008	4 DOOR REFRIGERATED TABLE -2C - S/S	411R10600	A	To brand	091609

Code	Description	map N°	Ref	Brand	ir33 Spare part code
727105	2 DOOR REFRIGERATED TABLE -2C-NO TOP	411R10600 (*)	A	To brand	091609
727108	2 DOOR REFRIGERATED TABLE -2C-NO TOP-REM	411R10700 (*)	B	To brand	091609
727159	2 DOOR REFRIGERATED TABLE -2/+10°C-ASIA	411R10600	A	To brand	091609
727160	6x1/3 DRAWER REFRIG. TABLE -2/+10°C-ASIA	411R10600	A	To brand	091609
727161	4x½ DRAWER REFRIGER. TABLE -2/+10°C-ASIA	411R10600	A	To brand	091609
727165	2 DOOR REFR. TABLE+UPSTAND -2/+10°C-ASIA	411R10600	A	To brand	091609
727166	6x1/3 DRAWER REF. TABLE+UPST.-2/+10°-ASIA	411R10600	A	To brand	091609
727167	4x½ DRAWER REFR. TABLE+UPST.-2/+10°C-ASIA	411R10600	A	To brand	091609
728086	2 DOOR REFRIGERATED TABLE -2C	411R10600 (*)	A	To brand	091609
728139	1 DOOR+2x1/2 DRAWER REFRIGER. TABLE -2C	411R10600 (*)	A	To brand	091609
728157	1 DOOR+3x1/3 DRAWER REFRIGER. TABLE -2C	411R10600 (*)	A	To brand	091609
728158	4x1/2 DRAWER REFRIGERATED TABLE -2C	411R10600 (*)	A	To brand	091609
728247	2 DOOR REFRIGERATED TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728248	1 DOOR+2x1/2 DRAWER REF. TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728254	1 DOOR+3x1/3 DRAWER REF. TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728259	4x1/2 DRAWER REFRIGER. TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728302	1 DOOR+1x1/3+1x2/3 DRAWER REFR. TABLE -2C	411R10600 (*)	A	To brand	091609
728509	2 DOOR REFRIGER. TABLE+SPLASHBACK -2°C	411R10600 (*)	A	To brand	091609
728304	1 DOOR+2x1/2 DRAWER FREEZER TABLE -20°C	411R10800 (*)	C	To brand	091642
728635	2 DOOR FREEZER TABLE -20°C	411R10800 (*)	C	To brand	091642
727106	3 DOOR REFRIGERATED TABLE -2C-NO TOP	411R10600 (*)	A	To brand	091609
727109	3 DOOR REFRIGERATED TABLE -2C-NO TOP-REM	411R10700 (*)	B	To brand	091609
727162	3 DOOR REFRIGERATED TABLE -2/+10°C-ASIA	411R10600	A	To brand	091609
727163	9x1/3 DRAWER REFRIG. TABLE -2/+10°C-ASIA	411R10600	A	To brand	091609
727164	6x½ DRAWER REFRIGER. TABLE -2/+10°C-ASIA	411R10600	A	To brand	091609
727168	3 DOOR REFR. TABLE+UPSTAND -2/+10°C-ASIA	411R10600	A	To brand	091609
727169	9x1/3 DRAWER REF. TABLE+UPST.-2/+10°-ASIA	411R10600	A	To brand	091609
727170	6x½ DRAWER REFR. TABLE+UPST.-2/+10°C-ASIA	411R10600	A	To brand	091609
728207	3 DOOR REFRIGERATED TABLE -2C	411R10600 (*)	A	To brand	091609
728235	2 DOOR+2x1/2 DRAWER REFRIGER. TABLE -2C	411R10600 (*)	A	To brand	091609
728241	1 DOOR+4x1/2 DRAWER REFRIGER. TABLE -2C	411R10600 (*)	A	To brand	091609
728242	6x1/2 DRAWER REFRIGERATED TABLE -2C	411R10600 (*)	A	To brand	091609
728264	3 DOOR REFRIGERATED TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728294	2 DOOR+2x1/2 DRAWER REF. TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728295	1 DOOR+4x1/2 DRAWER REF. TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728296	6x1/2 DRAWER REFRIGER. TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728510	3 DOOR REFRIGER. TABLE+SPLASHBACK -2°C	411R10600 (*)	A	To brand	091609
728305	2 DOOR+2x1/2 DRAWER FREEZER TABLE -20°C	411R10800 (*)	C	To brand	091642
728636	3 DOOR FREEZER TABLE -20°C	411R10800 (*)	C	To brand	091642
727107	4 DOOR REFRIGERATED TABLE -2C-NO TOP	411R10600 (*)	A	To brand	091609
727110	4 DOOR REFRIGERATED TABLE -2C-NO TOP-REM	411R10700 (*)	B	To brand	091609
728243	4 DOOR REFRIGERATED TABLE -2C	411R10600 (*)	A	To brand	091609
728244	3 DOOR+2x1/2 DRAWER REFRIGER. TABLE -2C	411R10600 (*)	A	To brand	091609
728245	2 DOOR+4x1/2 DRAWER REFRIGER. TABLE -2C	411R10600 (*)	A	To brand	091609
728246	8x1/2 DRAWER REFRIGERATED TABLE -2C	411R10600 (*)	A	To brand	091609
728297	4 DOOR REFRIGERATED TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728298	3 DOOR+2x1/2 DRAWER REF. TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728299	2 DOOR+4x1/2 DRAWER REF. TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728300	8x1/2 DRAWER REFRIGER. TABLE -2C-REMOTE	411R10700 (*)	B	To brand	091609
728511	4 DOOR REFRIGER. TABLE+SPLASHBACK -2°C	411R10600 (*)	A	To brand	091609
727148	REFR.COUNTER+SHOW CASE 2 DOORS 6 DRAWERS	411R16100	D	To brand	091609
727149	REFR.COUNTER+SHOWCASE 2 DOORS 12 DRAWERS	411R16100	D	To brand	091609
727150	REFRIGERATED COUNTER+SHOW CASE 3 DOORS	411R16100	D	To brand	091609
291490	BENCH TYPE REFRIGERATED SHOW CASE 1780MM	411R16000 (**)	E	To brand	091609
291491	BENCH TYPE REFRIGERATED SHOW CASE 2180MM	411R16000 (**)	E	To brand	091609
291492	BENCH TYPE REFRIGERATED SHOW CASE 1930MM	411R16000 (**)	E	To brand	091609
291493	BENCH TYPE REFRIGERATED SHOW CASE 2400MM	411R16000 (**)	E	To brand	091609

(*) Updated PARAMETER LIST available FROM s/n 74200001

(**) Updated PARAMETER LIST available FROM s/n 82000001

Param.	Description	Unit	A	B	C	D	E
SET RTC							
/2	Measurement stability		4	4	4	4	4
/3	Probe display response		0	0	0	0	0
/4	Virtual probe		0	0	0	0	0
/5	Selection °C or °F	Flag	0	0	0	0	0
/6	Decimal point	Flag	1	1	1	1	1
/tI	Display on terminal		1	1	1	1	1
/tE	Display on external terminal		0	0	0	0	0
/P	Type of probe		0	0	0	0	0
/A2	Configuration probe 2		2	2	2	2	0
/A3	Configuration probe 3		0	0	0	0	0
/c1	Calibration probe 1	°C/°F (/10)	1,0	1,0	1,0	2,0	9,0
/c2	Calibration probe 2	°C/°F (/10)	0,0	0,0	0,0	0,0	0,0
/c3	Calibration probe 3	°C/°F (/10)	0,0	0,0	0,0	0,0	0,0
St	Set point	°C/ °F	-2	-2	-20	0	0
rd	Control delta	°C/ °F	2,0	2,0	3,0	3,0	4,0
rn	Dead band	°C/ °F	4,0	4,0	4,0	4,0	4,0
rr	Reverse differential for control with dead band	°C/ °F	2,0	2,0	2,0	2,0	2,0
r1	Minimum set point allowed	°C/ °F	-2	-2	-20	0	-2
r2	Maximum set point allowed	°C/ °F	10	10	-15	10	10
r3	Operating mode	Flag	0	0	0	0	0
r4	Automatic set variation	°C/ °F	0	0	0	0	0
r5	Enable temperature monitoring	°C/ °F	0	0	0	0	0
rt	Temperature monitoring interval	°C/ °F	read	read	read	read	read
rH	Maximum temperature read	°C/ °F	read	read	read	read	read
rL	Minimum temperature read	°C/ °F	read	read	read	read	read
c0	Delay Output from power on	Min	2	2	2	2	1
c1	Delay between power on	Min	2	2	2	2	2
c2	Minimum compressor OFF time	Min	2	2	2	2	2
c3	Minimum compressor ON time	Min	0	0	0	0	0
c4	Duty setting	Min	15	15	100	15	100
cc	Continuous cycle duration	Hours	0	0	0	0	0
c6	Alarm bypass after continuous cycle	Hours	0	0	0	0	0
c7	Maximum pump down time	Sec	0	0	0	0	0
c8	Comp. start delay after open PD valve	Sec	5	5	5	5	5
c9	Enable autostart function in PD	Flag	0	0	0	0	0
c10	Select Pump down by time or pressure	Flag	0	0	0	0	0
c11	Second compressor delay	Sec	4	4	4	4	4
d0	Type of defrost	Flag	1	0	1	1	2
dI	Interval between defrosts	Hours	6	4	6	6	0
dt1	End defrost temperature, evaporator	°C/ °F	15	8	25	15	4
dt2	End defrost temperature, aux evap.	°C/ °F	4,0	4,0	4,0	4,0	4,0
dP1	Maximum defrost duration, evaporator	Min	20	40	30	20	1
dP2	Maximum defrost duration, aux evap.	Min	30	30	30	30	30
d3	Defrost start delay	Min	0	0	0	0	0
d4	Enable defrost on start-up	Flag	1	1	1	1	0
d5	Defrost delay on start-up	Min	30	30	30	30	0
d6	Display on hold during defrost		1	1	1	1	1
dd	Dripping time after defrost	Min	4	4	7	4	0

Param.	Description	Unit	A	B	C	D	E
SET RTC							
d8	Alarm bypass after defrost	Hours	1	1	2	1	1
d8d	Alarm bypass after door open	Hours/Min	0	0	0	0	0
d9	Defrost priority over compressor protectors	Flag	1	1	1	1	1
d/1	Defrost probe 1 read	°C/ °F	read	read	read	read	read
d/2	Defrost probe 1 read	°C/ °F	read	read	read	read	read
dC	Time base (0=h/m;1=m/s)	Flag	0	0	0	0	0
d10	Compressor running time for defrost	Hours	0	0	0	0	0
d11	Running time temperature for defrost	°C/ °F	1	1	1	1	1
d12	Advanced defrost		0	0	0	0	0
dn	Nominal defrost duration	%	65	65	65	65	65
dH	Proportional factor, variation in dl		50	50	50	50	50
A0	Alarm (fan) differential	°C/ °F	2,0	2,0	2,0	2,0	2,0
A1	Relative or Absolute Alarm	flag	0	0	0	0	0
AL	Low temperature alarm threshold	°C/ °F	4,0	4,0	30,0	4,0	0,0
AH	High temperature alarm threshold	°C/ °F	6,0	6,0	6,0	6,0	0,0
Ad	Low and high temperature signal delay	Min	65	65	60	65	65
A4	Digital input 1 configuration	Min	0	0	0	0	0
A6	Stop compressor from external alarm	Min	0	0	0	0	0
A7	External alarm detection delay	Min	0	0	0	0	0
A8	Enable alarms 'Ed1' and 'Ed2'	Flag	0	0	0	0	0
Ac	High condenser temperature alarm	°C/ °F	70,0	70,0	70,0	70,0	70,0
AE	High condenser temperature alarm differential	°C/ °F	10,0	10,0	10,0	10,0	10,0
Acd	High condenser temperature alarm delay	Min	0	0	0	0	0
AF	Light sensor OFF time	Sec	0	0	0	0	0
ALF	Antifreeze alarm threshold	°C/ °F	-5,0	-5,0	-5,0	-5,0	-5,0
AdF	Antifreeze alarm delay	Min	1	1	1	1	1
F0	Fan management	Flag	2	2	2	2	0
F1	Fan stop temperature	°C/ °F	45,0	45,0	43,0	45,0	5,0
F2	Fan OFF with compressor OFF	Flag	0	0	0	0	1
F3	Fans in defrost	Flag	1	1	1	1	0
Fd	Fan OFF after dripping	Min	0	0	3	0	0
F4	Condenser fan stop temperature	°C/ °F	40	40	40	40	40
F5	Condenser fan start differential	°C/ °F	5,0	5,0	5,0	5,0	5,0
H0	Device address		1	1	1	1	1
H1	Function of relay 4	Flag	1	1	8	1	1
H2	Enable ON/OFF (Y=1;N=6)	Flag	1	1	1	1	1
H4	Disable buzzer	Flag	0	0	0	0	0
H6	Lock keypad		0	0	0	0	0
H8	Output activation with time band	Flag	0	0	0	0	0
H9	Setpoint variation with time band	Flag	0	0	0	0	0
Hdh	Anti-sweat heater offset	°C/ °F	0,0	0,0	0,0	0,0	0,0