SP-0635

ECN 7846 Revision A

OMC - Replacing the Carel IR32 with a Carel IR33

<u>**Introduction**</u>

Your OMC case uses a Carel 24 volt IR32 controller. This control is no longer available from the manufacturer so we have supplied a new Carel 24 volt IR33 control to replace it. The wiring is not exactly the same from terminal to terminal. The following instructions will explain how to rewire the case to accept this new electronic control.
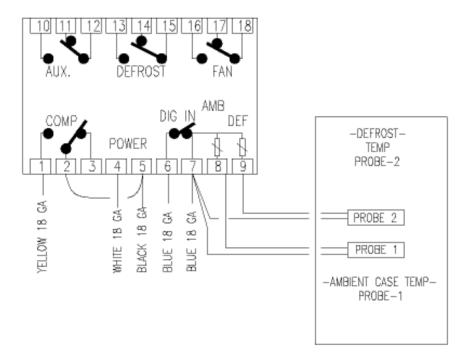
<u>**Rewiring Instructions**</u>

1. Remove the wire from terminal 1 of the old control and put it into terminal 2 of the new control.

2. Remove the wire from terminal 2 of the old control and put it into terminal 3 of the new control.

3. Remove the wire from terminal 4 of the old control and put it into terminal 7 of the new control.

4. Remove the wires from terminal 5 of the old control and put them into terminal 6 of the new control.

5. Remove the wire from terminal 6 of the old control and put it into terminal 11 of the new control.

6. Remove the wires from terminal 7 of the old control and put them into terminal 10 of the new control.

7. Remove the wire from terminal 8 of the old control and put it into terminal 8 of the new control.

8. Remove the wire from terminal 9 of the old control and put it into terminal 9 of the new control.

Page two of this document details the old and new schematics for the Carel refrigeration controller.
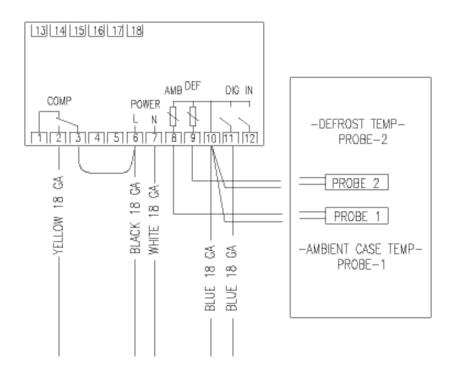
Note: The control was shipped from the factory programmed and ready to operate the case. Should you need to see the control settings, refer to page 3 of this document.

Wiring schematics

Wiring diagram for the old controller

Wiring diagram for the new controller

Program Parameters for the Carel IR33 control for OMC replacement

Code	Desc	Value	Code	Desc	Value
Pw	password	22	d6	display hold during defrost	2
/2	measurement stability	4	dd	drip time	2
/3	probe display response	0	d8d	alarm bypass	0
/4	virtual probe	0	d9	deprost priority	1
/5	C or F	1	d/1	display defrost probe 1	-
/6	decimal point	1	d/2	display defrost probe 2	-
/tl	display internal terminal	1	dC	time base defrost	0
/tE	display external terminal	0	d10	compressor run time	0
/P	probe type	0	d11	run time temp	1
/A2	probe 2 configuration	2	d12	advanced defrost	0
/A3	probe 3 configuration	0	dn	nominal defrost duration	65
/A4	probe 4 configuration	0	dH	proportional factor	50
/c1	calibration probe 1	0			
/c2	calibration probe 2	0	A0	alarm and fan diffrential	2
/c3	calibration probe 3	0	A1	type of threshold	0
/c4	calibration probe 4	0	AL	low temp alarm	0
			AH	high temp alarm	0
St	temperature set point	37	Ad	low high temp signal delay	120
rd	control delta	6	A4	digital input	8
rn	dead band	6	A5	digital input 2	0
rr	reverse differential	2	A6	compressor stop ext alarm	0
r1	minimum set point	24	A7	ext alarn detection delay	0
r2	maximum set point	40	A8	enable alarms Ed1 and Ed2	0
r3	operating mode	0	Ac	high temp alarm condensor	70
			AE	condensor alarm diff	10
c0	comp fan delay	0	Acd	condensor alarm delay	0
c1	min time between starts	2	AF	light sensor off time	0
c2	min compressor off time	0	ALF	antifreeze alarm	-5
c3	min compressor on time	0	AdF	antifreeze alarm delay	1
c4	duty setting	0			
cc	continuous cycle	0	F0	fan management	0
c6	alarm bypass	2	F1	fan start temp	5
c7	max pump down time	0	F2	fan off with comp off	0
c9	comp start delay	0	F3	fans in defrost	0
c10	pump down time/temp	0	Fd	fan off after dripping	0
c11	2nd comp delay	0	F4	ccnd fan stop temp	40
			F5	ccnd fan start diff	5
d0	defrost type	2			
dl	defrost interval	4	H0	serial address	1
dt1	end def temp	43	H1	relay 4 function	1
dt2	end def temp aux evap	4	H2	disable keypad	1
dP1	max def duration	60	H4	disable buzzer	0
dP2	max def duration aux evap	30	H6	lock keypad	0
d3	defrost start delay	0	H8	activation of output	0
d4	defrost start up yes/no	0	H9	enable set point variation	0
d5	defrost start up	0	Hdh	anti-sweat heater offset	0