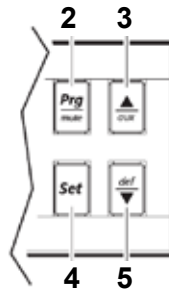


Carel ir33



Control Keys






Display

- | | |
|--------------------|---------------|
| 1. Compressor ON | 4. Key "Set" |
| 2. Key "Prg/ mute" | 5. Key "DOWN" |
| 3. Key "UP" | |

How to change the SET POINT (temperature in cabinet)

1. Press and hold **"Set"** key (4). The pre-set temperature will appear on the display.
2. Press the **"UP"** and **"Down"** arrow keys (3) (5) to change temp as required.
3. Recommended temperatures: -18°C Freezer and + 4°C Fridge
4. Press **"Set"** key (4) to save temperature changes.

Additional Features

1. To silence alarm press **"Prg/mute"** key (2)
2.  ON when the compressor starts
3.  FLASHING when activation of compressor is delayed
4.  ON when defrost is activated
Press and hold **"def/ Down"** arrow key (5) to force defrost

ENGINEER ONLY SETTINGS, PLEASE READ AND UNDERSTAND FULLY BEFORE PROCEEDING

Factory Reset (only required if parameters in table below have been unknowingly changed)





1. To set default parameter values switch off instrument.
2. Switch back on, hold **"Prg/ mute"** key (2) until the message "Std" is shown on the display.



How to change the SET PARAMETERS

1. To access the set parameter codes- press and hold **"Prg / mute"** (2) & **"Set"** (4) keys together for 5 seconds. The display will show "00".
2. Press the **"UP"** arrow key (3) until you reach value **22** and then press **"Set"** (4) to confirm (you will now be in the configuration parameters)
3. Use the **"UP"** and **"Down"** arrow keys (3) (5) to change between parameter codes (see table on next page for codes)

4. Press **"Set"** (4) to view or change the values within parameter code.
5. Use the **"UP"** and **"Down"** arrow keys (3) 5) to increase or decrease value of parameter code.
6. Once you have required value press **"Set"** (4) to save.
7. Repeat steps 3 to 6 to set other parameters. The icons shown on the display correspond to the category of parameter (see table below).
8. To permanently save the values and exit, press **"Prg/mute"** and hold for more than 5 seconds.

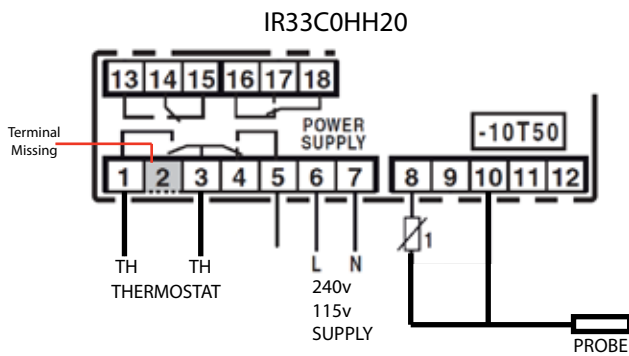
ENGINEER USE ONLY

ICON	CODE	PARAMETER	DESCRIPTION	UOM	FRIDGE	FREEZER	DEFAULT
	/A2	Configuration	Sets to FRIDGE/ FREEZER Mode		0		2
	St	Temperature set point <small>(see 1st instruction)</small>	Required temperature set point in cabinet	°C	4.0	-18.0	0.0
	rd	Temperature differential	Temp differential above set point that starts compressor	°C	1.5		2.0
	r1	Minimum set point	Minimum set point (St) allowed	°C	2.0	-20.0	-50
	r2	Maximum set point	Maximum set point (St) allowed	°C	10.0	-12.0	60
	c1	Min time between successive starts.	Only 1 restart will be allowed before time delay activated	min	6		
	d0	Type of Defrost	Type of defrost cycle. No defrost cycle for freezer		2	0	0
	d1	Interval between defrost Cycles	Hours between defrost cycles (can be increased or decreased as required. If ice buildup is occurring decrease hours between defrost cycles)	hours	6		8
	dP1	Length of defrost cycle	Length of time defrost will run for. If ice buildup is not clearing then increase length of defrost and reduce hours between defrost cycles (see above)	min	20	- -	30
	d6	Display during defrost cycle	Displays the temp at the start of defrost for the duration of the defrost cycle.	°C	1	- -	1
	dd	Dripping time after defrost	Time delay after defrost cycle before compressor starts again.	min	0	- -	2
	d8	Alarm by-pass after defrost	The alarm will have no delay after defrost cycle.	hours	0	- -	

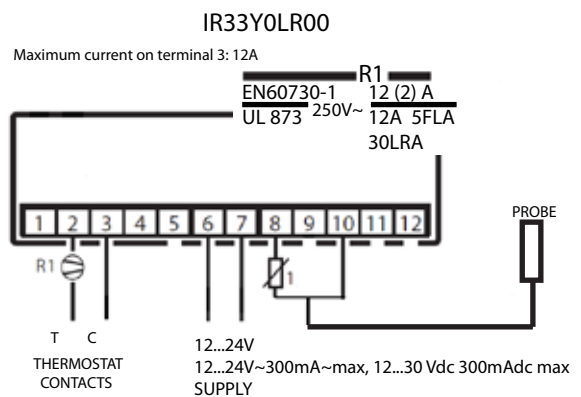
ICON	CODE	PARAMETER	DESCRIPTION	UOM	FRIDGE	FREEZER	DEFAULT	
	A0	Alarm and fan differential	Temp required below 'alarm set point' to turn alarm off	°C	1.5		2	
	A1	Alarm mode	1 Alarm On , 0 Alarm Off		1		0	
	AL	Low temperature alarm threshold	The lowest temperature at which the alarm will sound	°C	0.0	-24.0	0	
	AH	High temperature alarm threshold	The highest temperature at which the alarm will sound	°C	12.0	-10.0	0	
	Ad	Delay on low and high temperature alarms	Time delay before alarm sounds	min	3		120	
	A4	Digital Input 1 Configuration	DO NOT SET			1		
		Fd	Fan OFF after dripping	DO NOT SET		min	0	--
AUX	H1	Function of AUX output	DO NOT SET			1	--	

DO NOT CHANGE UNLESS INSTRUCTED BY PENGUIN

WIRING DIAGRAMS 230v and 12/24v



G60875 (230v)



G60890 (12/24v)

FAULT ALARMS

- E0** Sensor S1 (cabinet temperature) failure
- E1** Sensor S2 (defrost) failure
- LO** Low temperature alarm
- HI** High temperature alarm
- dor** Excess time of open door
- Etc** Real time clock failure
- EE** Error in E.prom. Unit parameters
- EF** Error in E-prom. Functioning parameters