ADJUSTING JOHNSON MR4 THERMOSTAT 9222075S

Changing set point

1. Press enter key for 2 seconds. In display the setpoint appears (32°F).
2. Change value with up or down key.
3. Press enter key to confirm.

Setting internal parameters

1. Press enter key for 7 seconds. In display the first parameter appears (HY).
2. Press enter key to read out value.
3. Change value with up or down key.
4. Press enter key to confirm.
5. The next parameter appears. Follow instructions 2 to 4.

When no key is pressed after last confirmation, system goes back to normal operation mode after 15 seconds.

Replacing of thermostat

When you install a new thermostat, then always change parameter Un first to 1 (°F). Otherwise some other parameters cannot be changed to the desired value. You can run through the parameters with the up or down keys, once you are inside the parameter settings.

Options

1. Self-test procedure. To execute this you first have to diconnect loads before self-test procedure. Press the up and down keys together, and hold for 5 seconds. Note: To return to normal mode the control must be switched OFF and ON again.
2. Manual start of defrost cycle. Hold the defrost key for 3 seconds. Note: The temperature has to be lower than the setting of parameter dt (41°F).
3. Actual temperature of sensor 1 (Thermostat). Press up key shortly 2 times.
4. Actual temperature of sensor 2 (Evaporator). Press down key shortly 2 times.

Error messages on display

F1: Interuption or short circuit of thermostat sensor.
F2: Interuption or short circuit of evaporator sensor.
EE: Programme failure.

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Parameters Johnson thermostat

Parameter	Description		CD 2-3-4-5 UL	Standard value from supplier
	Setpoint	°F	32	0
HY	Hysteresis	°F	4	2
LL	Lower sepoint limit	°F	27	0
hL	Higher setpoint limit	°F	40	30
cc	Anti short cycling	min	3	2
co	Deep freezing time	min	30	60
Ah	High temperature alarm	°F	10	10
AL	Low temperature alarm	°F	-10	-10
Ad	Alarm differential	K	5	1
At	Alarm time delay	min	30	30
dF	Defrost function		0	0
dE	Defrost end function		1	1
dt	Defrost termination temp.	°F	41	7
di	Defrost interval time	hrs	4	6
dd	Max defrost duration	min	45	40
dc	Dripping time	min	0	5
du	First defrost after power on	min	off	10
dP	Display during defrost		0	0
dr	Delayed displayed temp. after defrost		15	20
iF	Digital input function		0	0
id	Digital input time delay	min	0	5
FF	Fan operating function		0	0
Fd	Fan start up delay after defrost end	min	5	5
Fr	Fan start temp. after defrost end	°F	0	-5
SF	Thermostat operating function in case of sensor failure		2	2
So	Offset temp. sensor	K	0	0
Un	Temperature units °C/°F	0/1	1	0
Pu	Display updating time delay	sec	1	1