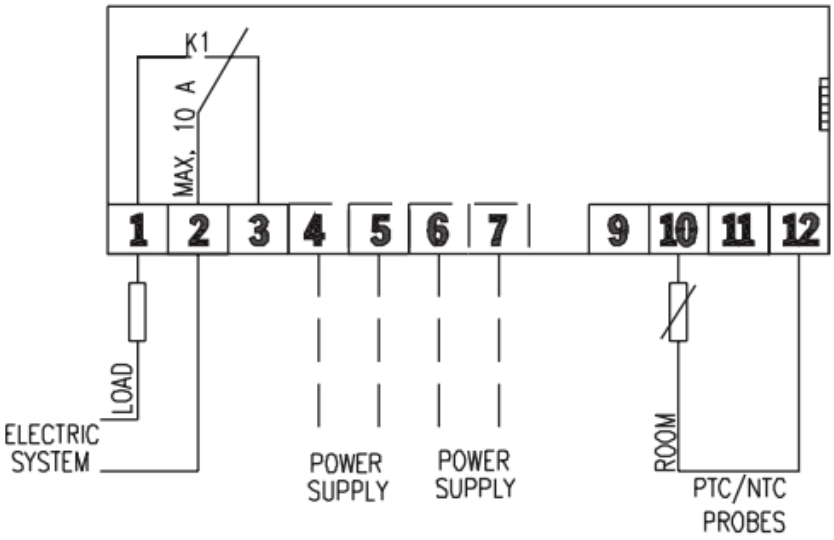
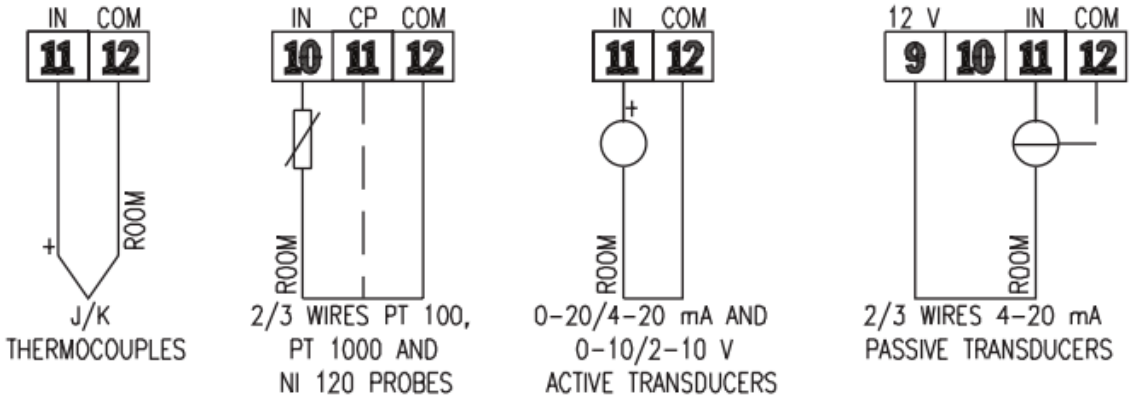
Homershams Love 40M Setup

Wiring:





- Probe Connection to 10 & 12 (PST) (Polarity irrelevant.)
- Probe Connection to 11 & 12 (T/C)
- Probe Connection to 10, 11 & 12 (Pt100)
- 240 VAC to 4 & 5
- 12 or 24 VAC/DC to 6 & 7
- Change over Relay C=2, NO=1, NC=3

Parameters:

Code	Description	Range	Factory Setting	Options
SP	Set Point	r1 to r2	0.0	
CA1	Ambient Probe Adjustment	-25 to 25 °C	0.0	
P0	Probe Input Type (The probe type has changed to PTC and so should now be connected across 10 & 12 and this parameter set to 0. The connection should be made before the thermostat is switched on otherwise an error is likely.)	0 to 13	2	0 = PTC 1 = NTC 2 = J T/C 3 = K T/C 4 = 3 wire Pt100 5 = 2 wire Pt100 6 = 3 wire Pt1000 7 = 2 wire Pt1000 8 = 4-20 mA 9 = 0-20 mA 10 = 2-10 V 11 = 0-10 V 12 = 3 wire Ni 120 13 = 2 wire Ni 120
P1	Decimal Point Position	0 or 1	1	
P2	Display Units	0 to 2	0	0 = °C 1 = °F 2 = No Units
P3	Min Process Value	-999 to 1999	-20	
P4	Max Process Value	-999 to 1999	80	
P5	Probe or SP Displayed	0 or 1	0	0 = Probe Display 1 – Set Point
r0	Differential or Hysteresis	0.1 to 99.0 °C	2.0	
r1	Minimum Value for Set Point	-199.0 to r2 °C	0	
r2	Maximum Value for Set Point	r1 to 1999 °C	350	
r3	Set Point Lockout	0 or 1	0	0 = Unlocked 1 = Locked
r5	Cooling or Heating	0 or 1	1	0 = Cooling 1 = Heating
C1	Min time between compressor starts	0 to 240 min	0	
C2	Minimum time compressor must stay off before being restarted	0 to 240 min	0	
C3	Minimum time compressor must stay on after being started	0 to 240 sec	0	
C4	During Probe Error, time compressor is off	0 to 240 min	10	
C5	During Probe Error, time compressor is on	0 to 240 min	10	
d0	Interval of time between defrost cycles (if 0, defrost will never activate)	0 to 99 hr	8	Suggest setting to 0
d3	Duration of Defrost Cycle	0 to 99 min	0	

d4	Start Defrost Cycle on power up	0 or 1	1	0 = No 1 = Yes
d5	Defrost Delay time on power up (d4 must be 1)	0 to 99 min	0	
d6	Display during defrost	0 or 1	1	
A1	Alarm Setpoint 1	-199 to 1999 °C	0	
A2	Alarm delay for A1	0 to 240 min	0	
A3	Alarm 1 Type	0 to 4	0	0 = Alarm Off 1 = Low Alarm 2 = High Alarm 3 = Deviation Low 4 = Deviation High
A4	Alarm delay on set point change	0 to 240 min	0	
A5	Alarm Setpoint 2	-199 to 1999 °C	0	
A6	Alarm delay for A2	0 to 240 min	0	
A7	Alarm 2 Type	0 to 4	0	0 = Alarm Off 1 = Low Alarm 2 = High Alarm 3 = Deviation Low 4 = Deviation High
E9	Reserved for future use			

To Adjust Settings:

- Press UP & Down together for 4 seconds till PA is displayed (Password Entry)
- Press “SET”
- Use DOWN arrow to set value -19
- Press “SET” to continue
- Press UP & Down together for 4 seconds till SP is displayed
- Use UP or DOWN arrow to cycle through parameters
- Press SET to view parameter
- Press UP or DOWN to change value
- Press SET to store change

40X-K Programming Key:

The programming key is ideal if you have multiple switches needing the same settings programmed.

The Model 40X-K is not battery powered and requires that the device being programmed be powered. If a power source is not available, a 40X-PS power supply must be installed into the port on the edge of the key.

Copying Parameters to Temperature Switch

1. Cut off power to the temperature switch
2. Connect the key to the temperature switch
3. Turn on power to the temperature switch or connect the power supply to the key (LED on key will be green and the temperature switch will read “CIn”)
4. Press and hold the button on the configuration key
5. After one second release the button on the key. Parameters will be copied from the key to the temperature switch. (LED will turn red)
6. The display on the temperature switch will read “PrG” and the LED will turn green once the temperature switch has been programmed successfully.
7. Do not disconnect the key while the LED is red, as it is copying the parameters
8. After LED on key returns to green, disconnect the power supply then remove the key.

Copying Parameters to Programming Key

1. Remove Power from the 40M
2. Connect Key to 40M
3. Turn Power back on to 40M (LED on key will show green and 40M Display will read “Cln”)
4. Press & Hold set button on 40M (Display will flash “St”)
5. After 4 seconds release the SET button on 40M (“St” on display will stop flashing and the LED on the key will be Red)
6. **DO NOT** disconnect the key while the LED is Red as it is copying the parameters.
7. After LED on key turns Green it is OK to remove the key.