Programming Device with Configuration Key

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 Configuration Key

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
• Wiring diagram is displayed on top of the control
• Insert unit into hole from the front side of the panel
• Apply silicone around the perimeter of the hole to prevent leakage
• Cut hole in panel 71 x 29 mm (2.80 x 1.14 in)
• Non-volatile memory.
• Memory Backup: IP 65.
• Agency Approvals: UL, CE.

SPECIFICATIONS

Range: Current: -1999 to 1999; Voltage: -1999 to 1999; K T/C: -140 to 1999°F (-100 to 1300°C); J T/C: -140 to 1450°F (-100 to 800°C); RTD: -320 to 1200°F (-200 to 850°C); PTC: -58 to 500°F (-50 to 150°C); NTC: -40 to 230°F (-40 to 150°C); R. NTD...-110 to 570°F (-80 to 300°C).

Input: RTD thermocouple, thermometer current and voltage (depending on model).

Output: 16A @ 250 VAC SPDT relay (max current allowed is 10A).

Control Type: On/Off.

Power Requirements: 12 to 24 VAC/VDC, 115 VAC or 230 VAC (depending on model).

Accuracy: ±1% F.S.

Display: 3-1/2 digit, multi-color LED display that has alarm, defrost and output symbols. For added versatility, the temperature units can be field selected for °F or °C. For cooling applications, manual defrost mode can be initiated by pushing a single button. A flashing alarm informs users when the current temperature exceeds preset limits. When programming multiple units, a programming key is available to reduce set up time.

INSTALLATION

Note: Unit must be mounted away from vibration, impacts, water and corrosive gases.

For 40X-PS power supply, disconnect the power supply before disconnecting the key)

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
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, it is ok to disconnect the key. (If using 40X-PS power supply, disconnect the power supply before disconnecting the key)

OUT 1 suddenly Off

OUT 1 flashing

Either modification of set point or call for load during bad protection (C1 or C2)

Defrost cycle is active

Alarm condition is present

Temperature is measured in °C

Temperature is measured in °F

Key pad is locked

Plots 1 error

DISPLAY MESSAGES

ADJUSTING PARAMETER VALUES

In order to change the parameter values, follow the procedure below:

• Press UP ARROW and DOWN ARROW simultaneously for four seconds until PA is displayed
• Press SET
• Use UP ARROW or DOWN ARROW to adjust value to -19
• Press SET
• Use UP ARROW and DOWN ARROW simultaneously for four seconds until SP is displayed
• Press SET
• Use UP ARROW or DOWN ARROW to cycle through parameters
• Press SET to view value of parameter
• Use UP ARROW or DOWN ARROW to adjust value of parameter
• Press SET to store value
• Press UP ARROW and DOWN ARROW simultaneously for four seconds to exit menu

MAINTENANCE, CLEANING AND REPAIR

After final installation of the unit no routine maintenance is required. Clean the surface of the display controller with a soft and damp cloth. Never use abrasive detergents, petrol, alcohol or solvents. A periodic check of the customer service to receive a return goods authorization number before shipping.
Avoid installing the temperature probe cables in close proximity of any power cables. If the length of the probe cables is longer than 100 meters, a recalibration adjustment may be made using the CA1 parameter.