

# STC-60CX Digital Temperature Controllers

## 1. Touch Display:

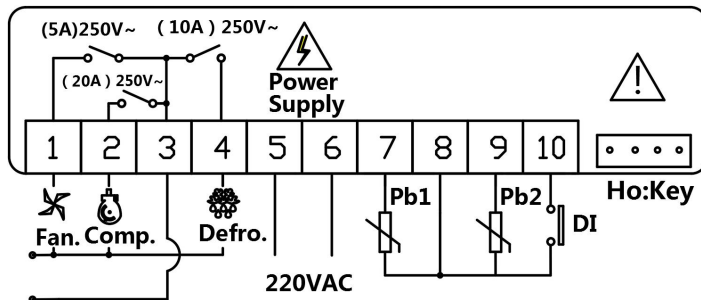


- SET** : To display target set point; in programming mode it selects a parameter or confirm operation;
- : To start a manual defrost (Push the key for more than 2 seconds);
- : (up) In programming mode it browses the parameter codes or increases the displayed value; Push the key for more than 3 seconds and the continuous cycle will be on;
- : (down) In programming mode it browses the parameter codes or decreases the displayed value; Push the key and the probe Pb2 will be displayed;
- : Touch and hold for 2 seconds to unlock keypad; to switch the instrument off or on; return to the room temperature display form the programming mode;
- SET +**  : To enter in programming mode;

## 2. Display Light Indicators:

Light Indicators	State	Sense
	ON shine	Compressor active
	ON blink	Compressor starting or Compressor delay
	ON shine	Defrost active
	ON blink	Coil drainage
	ON shine	Fan active
	ON blink	Fan delay
	ON shine	Parameter setting mode
	ON blink	Economy Setpoint active
	ON shine	Display keypad lock
	ON blink	Display keypad lock
<b>AUX</b>	ON blink	Continuous cycle

## 3. Wiring Diagram:



## 4. Alarms Indicator:

Light Indicators	Sense
E1	Fault on Pb1 (probe1)
E2	Fault on Pb2 (probe2)
HA	Alarm for high Pb1 temperature
LA	Alarm for low Pb1 temperature
dA	Door open alarm
EA	External alarm

## 5. Display functions:

Cp.	Function	Setting Range	Factory set
<b>SEt</b>	Set point	LSE to HSE	0
<b>diF</b>	Differential (Hysteresis)	0.1 to .30.0°	3
<b>HSE</b>	High Temperature Set point	Set to 230°	10
<b>LSE</b>	Low Temperature Set point	-50°C to Set	-18
<b>CA1</b>	Calibration of probe Pb1	-12° to + 12°	0
<b>CA2</b>	Calibration of probe Pb2	-12° to + 12°	0
<b>dOn</b>	The compressor delay	0 to 50min	0
<b>CCt</b>	Compressor ON time during continuous cycle	0 to 250min	0
<b>CCS</b>	Set point for continuous cycle	-50 to 150°	-5
<b>COn</b>	Compressor ON time with faulty probe	0 to 250min	15
<b>COF</b>	Compressor OFF time with faulty probe	0 to 250min	30

dis.	Function	Setting Range	Factory set
<b>CF</b>	Temperature units	0 = °C 1 = °F	0
<b>ndt</b>	Value displayed with decimal .	0 = n : no 1 = y : yes	1
<b>ddd</b>	Parameter to be displayed	0 = set-point 1 = probe Pb1 2 = probe Pb2	1
<b>drr</b>	Displayed value refresh rate	1 to 99 sec	1

def.	Function	Setting Range	Factory set
<b>dty</b>	Type of defrost	0 = electrical defr. 1 = hot gas	1
<b>dst</b>	Defrost termination temperature	-50 to 50°	6
<b>dit</b>	Defrost frequency	0 to 250 hours	3
<b>dEt</b>	Defrost duration	0 to 250 min.	15
<b>dSd</b>	First Defrost Delay after request	0 to 59 min.	0
<b>Fdt</b>	Dripping time	0 to 250 min.	0

<b>dFd</b>	Displayed values during defrost	0=Pb1temperature 1= Pb1 at defrost start 2 =set point 3=dEF	1
<b>dAd</b>	Max Display after defrost	0 to 250 min.	6
<b>dAF</b>	Defrost delay after continuous cycle	0 to 250 min.	0
<b>dEE</b>	Evaporator sensor probe	0=not present 1=present	1

<b>fan.</b>	<b>Function</b>	<b>Setting Range</b>	<b>Factory set</b>
<b>FnC</b>	Fan Control Operation	0=runs with the compressor,OFF during defrost 1=continuous mode,OFF during defrost 2=runs with the compressor,On during defrost 3=continuous mode,On during defrost 4=closed	1
<b>Fnd</b>	Fans delay after defrost	0 to 250 min.	10
<b>Fst</b>	Fan termination Temperature	-50° to 122°	2
<b>FOn</b>	Fan on time when compressor is off	0 to 15 min.	0
<b>FOF</b>	Fan off time when compressor is off	0 to 15 min.	0

<b>alarm.</b>	<b>Function</b>	<b>Setting Range</b>	<b>Factory set</b>
<b>HAL</b>	High Temperature Alarm	LAL to 140°	140
<b>LAL</b>	Low Temperature Alarm	-50° to HAL	-50
<b>AdF</b>	Alarm differential	1 to 50.0°	1
<b>ALd</b>	Temperature Alarm delay	0 to 250 min	15
<b>dAO</b>	Temperature Alarm exclusion after Defrost	0 to 250 min	30
<b>PAO</b>	Alarm exclusion after reactivation	0 to 23 hour.	2
<b>SFO</b>	Sensor Failure Operation	0= always OFF 1=always ON 2=Con and CoF	2

<b>di.</b>	<b>Function</b>	<b>Setting Range</b>	<b>Factory set</b>
<b>OLP</b>	Digital input polarity	0=open active 1=close active	1

<b>diC</b>	Digital Input configuration	0 = disabled 1 = defrost 2 = cooling 3 = door switch 4=continuous cycle 5 = external alarm 6 = energy saving	3
<b>dOd</b>	Digital Input Alarm delay	0 to 250 min	15
<b>OdC</b>	Compressor and fan status when open the door	0 = normal 1 = Fan OFF 2=compressor OFF 3=compressor and Fan OFF	3
<b>rrd</b>	Outputs restart after doA alarm	0=no 1=yes Outputs restart	1
<b>HES</b>	Temperature increase during the energy Saving cycle	-30° to 50°	0

<b>conf.</b>	<b>Function</b>	<b>Setting Range</b>	<b>Factory set</b>
<b>Adr</b>	Serial address	1 to 247	1
<b>OnF</b>	On/off key enabling	0=disabled 1=enabled	1
<b>UL</b>	Copy of programming parameters from Digital Controller to Copy Card	N y	n
<b>dL</b>	Copy of programming parameters from Copy Card to Digital Controller	N y	n

## 6.Mechanical characteristics:

- **Casing:** PC+ABS resin casing, polycarbonate window
- **Terminals:** screw / disconnect able terminals for 2.5mm cross-sectional cable area
- **Connector:** TTL for copy card
- **Humidity:** use / storage 10 ... 90%RH (non-condensing)
- **NTC probe length:** 2 meter ( 79" )
- **Standard NTC probe material:** TPE (thermoplastic elastomer)
- **NTC probe with metal cap sensing element :** OPTIONAL
- **Copy Card:** OPTIONAL
- **Panel mounting:** 71x29 mm drilling template