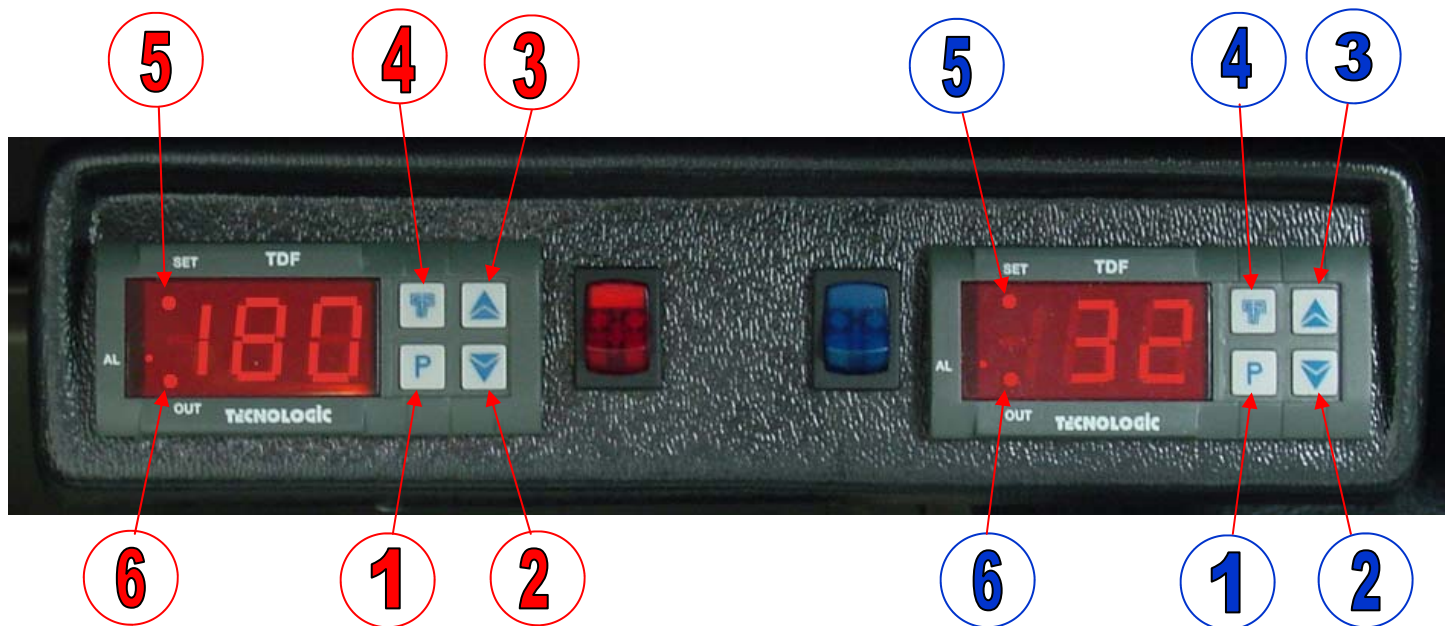


TECNOLOGIC CONTROLLER INSTRUCTIONS—TDF 11



PROGRAMMING OVEN SET-POINT

1. Press key **P (1) and HOLD**, until **CC** is displayed, then arrow UP **(3)** until **RU** displays.
2. Press **P (1)**, then the arrow UP **(3)** until **F** displays.
3. Press **P (1)**, then arrow UP **(3)** until **D** (i.e. DIFFERENTIAL SWITCHING POINT) displays.
4. Press **P (1)**, then arrow UP **(3)** until recommended setting of **5.0** displays.
5. Press **P (1)**, then arrow UP **(3)** until **LS** (i.e. MIN SET) displays.
6. Press **P (1)**, then arrow UP **(3)** or DOWN **(2)** until **150** displays.
7. Press **P (1)**, then arrow UP **(3)** until **HS** (i.e. MAX SET) displays.
8. Press **P (1)**, then arrow UP **(3)** or DOWN **(2)** until **199** displays.
9. Press **P (1)**, then arrow UP **(3)** or DOWN **(2)** until **SP** displays.
10. Press **P (1)** the arrow UP **(3)** or DOWN **(2)** until **199** degrees displays.
11. Press **P (1)**, then arrow UP **(3)** until **HC** (i.e. HEATING/COOLING) displays.
12. Press **P (1)**, then arrow UP **(3)** until **H** (i.e. HEATING) displays.
13. **EXIT** from the set programming mode occurs **automatically** by not pressing any key for 5 seconds, thus the temperature process value will again be displayed.

*NOTE - Press and hold key (approximately 5 seconds) in step # 1 only, all other steps press & release.

Delivery Concepts pre-sets all oven controllers at 199 degrees max setting with 5 differential unless specified otherwise.

PROGRAMMING REFRIGERATION SET POINT

1. Press key **P (1) and HOLD**, until **CC** is displayed, then arrow UP **(3)** until **RU** displays.
2. Press **P (1)**, then the arrow UP **(3)** until **F** displays.
3. Press **P (1)**, then arrow UP **(3)** until **D** (i.e. DIFFERENTIAL SWITCHING POINT) displays.
4. Press **P (1)**, then arrow UP **(3)** until recommended setting of **5.0** displays.
5. Press **P (1)**, then arrow UP **(3)** until **LS** (i.e. MIN SET) displays.
6. Press **P (1)**, then arrow UP **(3)** or DOWN **(2)** until **34** degrees displays.
7. Press **P (1)**, then arrow UP **(3)** until **HS** (i.e. MAX SET) displays.
8. Press **P (1)**, then arrow UP **(3)** or DOWN **(2)** until **39** degrees displays.
9. Press **P (1)**, then arrow UP **(3)** or DOWN **(2)** until **SP** displays.
10. Press **P (1)** the arrow UP **(3)** or DOWN **(2)** until **34** degrees displays.
11. Press **P (1)**, then arrow UP **(3)** until **HC** (i.e. HEATING/COOLING) displays.
12. Press **P (1)**, then arrow UP **(3)** until **C** (i.e. COOLING) displays.
13. **EXIT** from the set programming mode occurs **automatically** by not pressing any key for 5 seconds, thus the temperature process value will again be displayed.

*NOTE - Press and hold key (approximately 5 seconds) in step # 1 only, all other steps press & release.

Delivery Concepts pre-sets all refrigerator controllers at 34 degrees min/39 degrees max setting with 5 differential unless specified otherwise.

TECNOLOGIC CONTROLLER INSTRUCTIONS—TDF 11

GUIDE TO NUMBERS ON DIGITAL CONTROL (RED & BLUE)

- (1) - **Key P**: Used for the set point setting and to program the functioning parameters.
- (2) - **Key DOWN**: Used to decrease the values to be set or to select parameters.
- (3) - **Key UP**: Used to increase the values to be see or to select parameters.
- (4) - **KEY NOT USED**
- (5) - **Led SET**: Signalize the set point programming mode (on) or the parameters programming mode (flashing).
- (6) - **Led OUT**: Signalize the on output state (on), off (of) or inhibited (flashing).

PROGRAMMING OF SET-POINT

Press key **P(1)** then release it, led **SET (5)** will flash and the SET value will be shown on display.

To modify press key **UP(3)** so as to increase value or **DOWN(2)** so as to decrease it.

These key count one digit at a time but if the keys are pressed for over One second the value increases or decreases fast and after two seconds the speed increases even more, so as to reach the desired value immediately.

The outgoing from the Set Programming mode occurs automatically by not pressing any key for about 5 seconds, thus the temperature process value will again be displayed.

PROGRAMMING OF PARAMETERS

To accede to the operating parameters it is necessary to press **P(1)** holding it down for about 5 seconds, after which the led **SET (5)** will flash and the code of the first parameter will be visualized on the display.

At this point key **P(1)** can be released and by pressing **UP(3)** or **DOWN(2)** the desired parameter can be selected.

Once the parameter on which we intended to operate has been selected, to modify it press **P(1)** then Release it, the SET of the parameter will show up.

To modify this value press **UP(3)** or **DOWN(2)** so as to increase or decrease the value. Once the desired value has been set press and then release **P(1)** and the selected parameter code can be read on the Display. By pressing **UP(3)** or **DOWN(2)** it is therefore possible to choose another one and modify it as previously mentioned.

To **EXIT** from the programming mode, no key is to be pressed for about 20 seconds, the instrument will automatically return to normal functioning mode, visualizing the temperature process value.

TECNOLOGIC CONTROLLER INSTRUCTIONS—TDF 11

DESCRIPTION OF PARAMETERS

CC - FIXED PARAMETER

CA - CALIBRATION: Positive or negative offset which is calculated on probe reading before visualizing and to which the control functioning is also connected. This parameter can be utilized when a recalibration to the instrument is desired.

ru - UNIT OF MEASUREMENT: Determines the visualization of the temperature in Centigrade or Fahrenheit degrees. It is to be remember that the change of this parameter modifies the visualization but not the SET and SET limit (“LS” and “HS”) programmed (eg. if the SET was 50 degrees Centigrade and the unit changes, the SET will rest 50 degrees Fahrenheit).

dP - DECIMAL POINT: Allows the insertion of the decimal point on the display and therefore to determine resolution of the reading value in the range from -19.9 to 19.9 (**on** = with decimal point, **of** = without decimal point).

d - DIFFERENTIAL SWITCHING POINT: Value between stating and stopping of output OUT.

LS - MINIMUM SET: Minimum possible SET point value or lower limit of SET point.

HS - MAXIMUM SET: Maximum possible SET point value or higher limit of SET point.

HC - OUTPUT OPERATIN MODE: Determines if the output OUT is to control a Heating process or a Cooling process. (H = Heating, C = Cooling).

rP - OUTPUT RELAY STATE IN CASE OF ERROR PROBE: Select output relay state in case of error probe (on = relay on, of = relay off).

PS - COMPRESSOR TYPE PROTECTION: Select the type of protection for the compressor against “short cycle”. The possible selections are:

1 = delay before start

2 = delay after stop

3 = delay between starts

Pt - TIME DELAY COMPRESSOR PROTECTION: Time delay setting for parameter “**PS**” intended in minutes.

od - OUTPUT DELAY AT POWER ON: Time delay of OUT relay activation after power on and expressed in minutes.

HA - HIGH ALARM: Temperature value in respect with SET point above at which the alarm will be on (The alarm will be on when the process temperature will be higher then the value SET + HAL)

LA - LOW ALARM: Temperature value in respect with the SET point below at which the alarm will be on (The alarm will be on when the process temperature will be lower then the value SET - LAL)

Ad - ALARM DIFFERENTIAL: Value between starting and stopping of alarm signal (par. HA and LA).

PA - ALARM DELAY AT POWER ON: Time delay after power on during which the alarm will not be activated (expressed in hours).

FI - DIGITAL INPUT FUNCTION: It establishes which function has to realize the digital input.

0 = no function

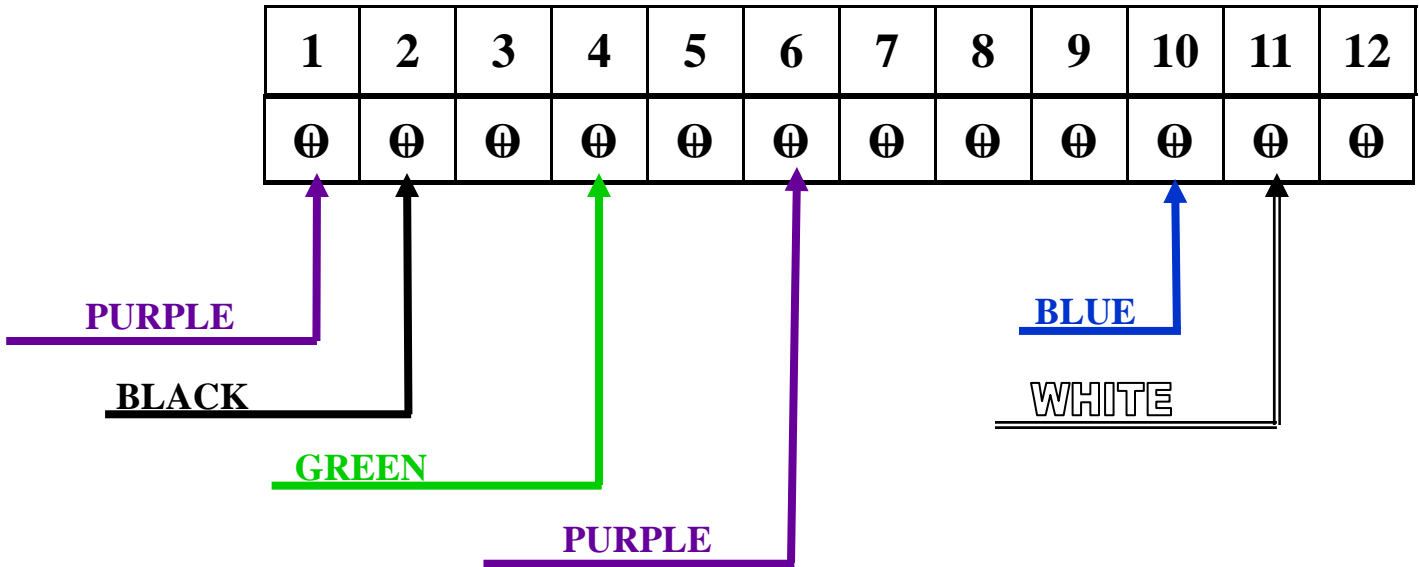
3 = external alarm

LI - DIGITAL INPUT LOGIC MODE: It establishes if the digital input causes the activation of the programmed function on par. “**FI**” when it’s closed, or (**on**) when it’s opened

SP - SET POINT: Set point value.

COLOR CODE GUIDE FOR WIREING TO DIGITAL TERMINALS

Refrigeration Side



Oven Side

