ASCON TECNOLOGIC CONTROLLER INSTRUCTIONS FOR REFRIGERATOR—Z-31
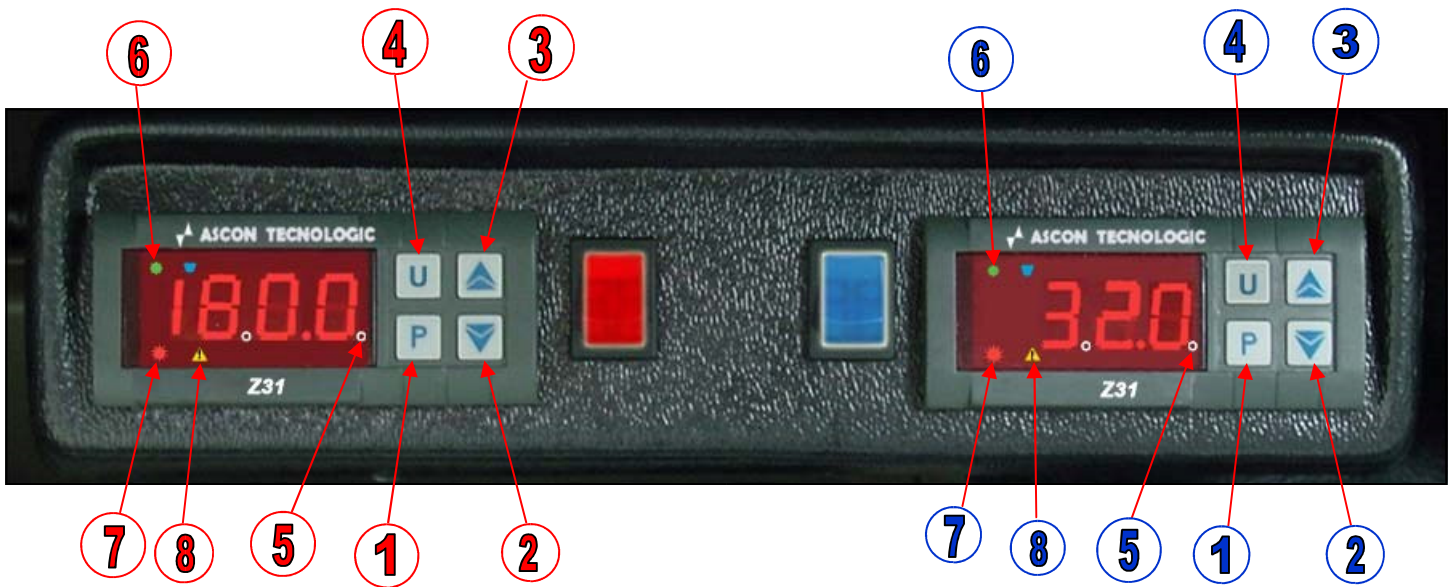

PROGRAMMING REFRIGERATION SET POINT

1. Press key **P (1) and HOLD,** until RED light appears.
2. Use arrows (3) UP or (2) DOWN until S.LS displays.
3. Press **P (1)**, then arrow UP or DOWN until **34.0º** displays.
4. Press **P (1)**, then arrow UP or DOWN until S.HS displays.
5. Press **P (1)**, then arrow UP or DOWN until **39.0º** displays.
6. Press **P (1)**, then arrow UP or DOWN until i.uP displays.
7. Press **P (1)**, then arrow UP or DOWN until ºF displays.
8. Press **P (1)**, then arrow UP or DOWN until r.d displays.
9. Press **P (1)**, then arrow UP or DOWN until **+5.0** displays.
10. Press **P (1)**, then arrow UP or DOWN until r.HC displays.
11. Press **P (1)**, then arrow UP or DOWN until C displays.
12. Press **P (1)**, then arrow UP or DOWN until SP displays.
13. Press **P (1)**, then arrow UP or DOWN until **34.0º** displays.
14. **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 and release.

Delivery Concepts pre-sets all refrigerator controllers at 34.0º degrees min/39.0º degrees max setting with -5 differential unless specified otherwise.

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 and for selecting parameters.
3. **KEY UP :** Used to increase values to be set or to select parameters.
4. **KEY U :** Press for 2 seconds to exit programming.
5. **LED Set :** Indicates the input in programming mode and the programming level of the parameters.
6. **LED OUT - COOL** Indicates the control output status (compressor or the temperature control device) when the instrument is programmed for cooling operation; on (on), off (off) or inhibited (flashing).
7. **LED OUT - HEAT:** Indicates the control output status (compressor or the temperature control device) when the instrument is programmed for heating operation; on (on), off (off) or inhibited (flashing).
8. **LED ALARM:** Indicates alarm status on (on), off (off) or silenced (flashing)

ASCON TECNOLOGIC CONTROLLER INSTRUCTIONS FOR REFRIGERATOR—Z-31

Programmable Parameters Table

Here below is a description of the pertinent parameters for oven operation.

	Parameter	Description	Range	Def.	Note
S - *parameters relative to Set Point*					
1	**S.HS**	Maximum Set Point	LS÷ 999	39	(#V)
2	**S.LS**	Minimum Set Point	99.9/HS	34	(#V)
3	**SP**	Set Point	LS÷ HS	34	(#V)
i. - *parameters relative to imput*					
4	**i.SE**	Probe Type	Pt / nt	Pt	
5	**i.uP**	Unit of measurement and resolution (decimal point) CO = °C with 1 °res FO = °F with 1 °res C1 = °C with 0.1 °res F1 = °F with 0.1 °res	CO / FO / C1 / F1	FO	
r. - *parameters relative to temperature control*					
8	**r.d**	Differential *(Hysteresis)*	0.0 ÷ 30.0 °C/°F	5.0	(#V)
11	**r.HC**	Output operating mode H= Heating C= Cooling	HEAT -COOL	COOL	(#V)

Problems, Maintenance and Warranty
Error Signaling

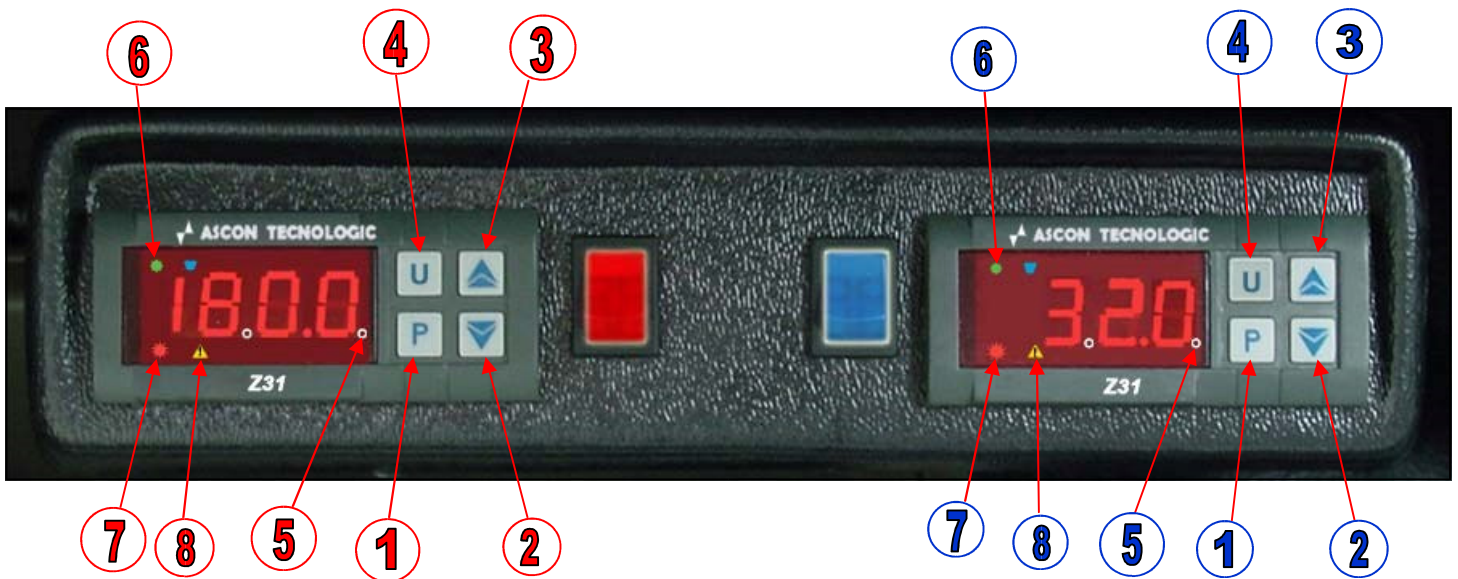| Error	Reason	Action
E1 -E1	The probe may be interrupted (E)or in short circuit (-E), or may measure a value outside the range allowed	Check the correct connection of the probe with the instrument and check that the probe works correctly.
EPr	Internal EEPROM error	Press key P
err	Fatal Memory error	Replace the instrument

ASCON TECNOLOGIC CONTROLLER INSTRUCTIONS FOR REFRIGERATOR—Z-31

COLOR CODE GUIDE FOR WIRING TO DIGITAL TERMINALS

REFRIGERATION

1	2	3	4	5	6	7	8	9	10	11	12

PURPLE

BLACK

GREEN

PURPLE

BLUE

WHITE

http://www.ascontecnologic.com/sites/ascontecnologic.com/files/MZ31-ENG02.pdf
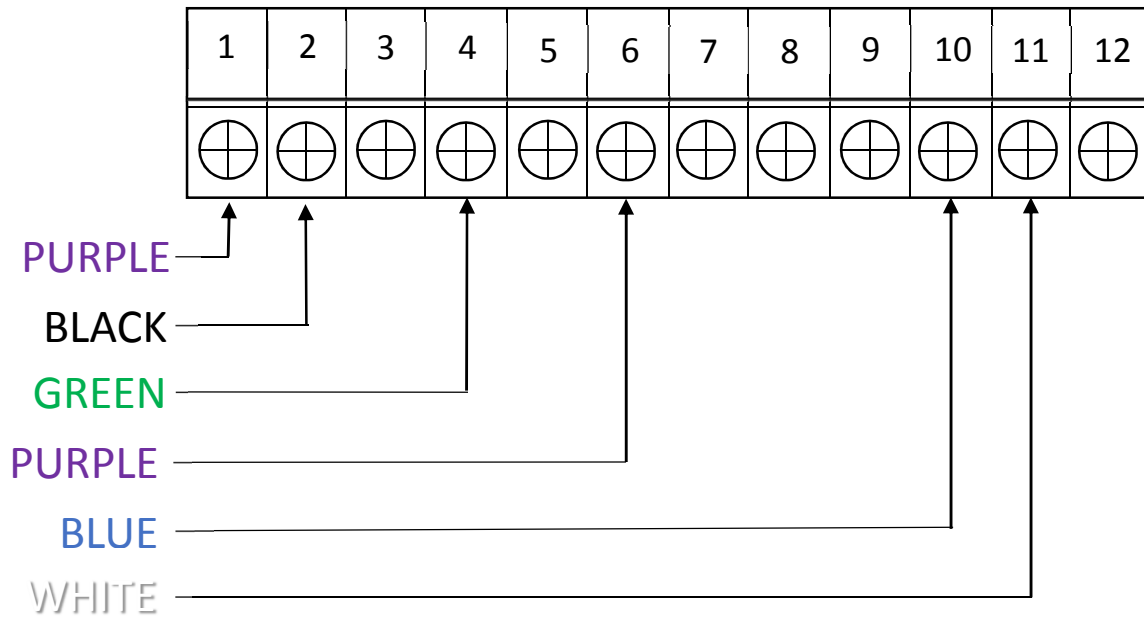
PROGRAMMING OVEN SET-POINT

1. Press key **P (1) and HOLD,** until RED light appears.
2. Use arrows (3) UP or (2) DOWN until **i.uP** displays.
3. Press **P (1)**, then arrow UP or DOWN until **ºF** displays.
4. Press **P (1)**, then arrow UP or DOWN until **r.HC** displays.
5. Press **P (1)**, then arrow UP or DOWN until **H** displays.
6. Press **P (1)**, then arrow UP or DOWN until **SP** displays.
7. Press **P (1)**, then arrow UP or DOWN until **199.0º** displays.
8. Press **P (1)**, then arrow UP or DOWN until **S.HS** displays.
9. Press **P (1)**, then arrow UP or DOWN until **199.0º** displays.
10. Press **P (1)**, then arrow UP or DOWN until **S.LS** displays.
11. Press **P (1)**, then arrow UP or DOWN until **150.0** displays.
12. Press **P (1)**, then arrow UP or DOWN until **r.d** displays.
13. Press **P (1)**, then arrow UP or DOWN until **5.0** displays.
14. **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 and release.

Delivery Concepts pre-sets all oven controllers at 199.0º degrees min/185 degrees max setting with +5 differential unless specified otherwise.

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 and for selecting parameters.
3. **KEY UP :** Used to increase values to be set or to select parameters.
4. **KEY U :** Press for 2 seconds to exit programming.
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8. **LED ALARM:** Indicates alarm status on (on), off (off) or silenced (flashing)

ASCON TECNOLOGIC CONTROLLER INSTRUCTIONS FOR OVEN—Z-31

Programmable Parameters Table

Here below is a description of the pertinent parameters for oven operation.

	Parameter	Description	Range	Def.	Note
S - *parameters relative to Set Point*					
1	**S.HS**	Maximum Set Point	LS÷ 999	199	(#V)
2	**S.LS**	Minimum Set Point	99.9/HS	150	(#V)
3	**SP**	Set Point	LS÷ HS	199	(#V)
i. - *parameters relative to input*					
4	**i.SE**	Probe Type	Pt / nt	Pt	
5	**i.uP**	Unit of measurement and resolution (decimal point) CO = °C with 1 °res FO = °F with 1 °res C1 = °C with 0.1 °res F1 = °F with 0.1 °res	CO / FO / C1 / F1	FO	
r. - *parameters relative to temperature control*					
8	**r.d**	Differential *(Hysteresis)*	0.0 ÷ 30.0 °C/°F	5.0	(#V)
11	**r.HC**	Output operating mode H= Heating C= Cooling	HEAT -COOL	HEAT	(#V)

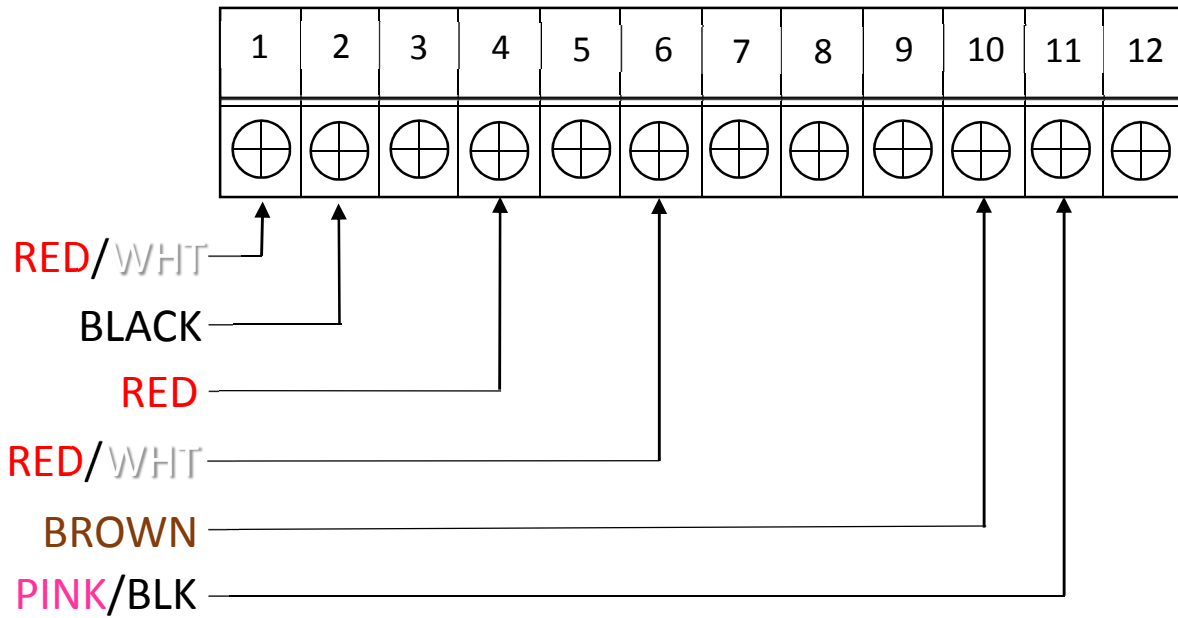## Problems, Maintenance and Warranty
Error Signaling

Error	Reason	Action
E1 -E1	The probe may be interrupted (E)or in short circuit (-E), or may measure a value outside the range allowed	Check the correct connection of the probe with the instrument and check that the probe works correctly.
EPr	Internal EEPROM error	Press key P
err	Fatal Memory error	Replace the instrument

ASCON TECNOLOGIC CONTROLLER INSTRUCTIONS FOR OVEN—Z-31

COLOR CODE GUIDE FOR WIRING TO DIGITAL TERMINALS

OVEN

1	2	3	4	5	6	7	8	9	10	11	12

RED/WHT

BLACK

RED

RED/WHT

BROWN

PINK/BLK

http://www.ascontecnologic.com/sites/ascontecnologic.com/files/MZ31-ENG02.pdf