



Thermal Profile Guide

CONTROL-X2 advanced engine block heater controllers:

This quick guide provides the basic fundamentals about the CONTROL-X2 thermal profiles.

Illustration A. shows thermal profile zone, 01 thru 13. Default temperatures are listed in Fahrenheit, Celsius conversions are provided. Program any value of variable X and variable Y for every temperature zone as needed for your specific block heating application requirements.

(Illustration A.)

Temperature C	Temperature F	Time On	Time Off	ZONE
Below -20.00	Below -04.00	X	Y	ZONE 01
-20.00 to -18.33	-04.00 to -01.00	X	Y	ZONE 02
-17.78 to -16.11	00.00 to 03.00	X	Y	ZONE 03
-15.56 to -13.89	04.00 to 07.00	X	Y	ZONE 04
-13.33 to -11.67	08.00 to 11.00	X	Y	ZONE 05
-11.11 to -09.44	12.00 to 15.00	X	Y	ZONE 06
-08.89 to -07.22	16.00 to 19.00	X	Y	ZONE 07
-06.67 to -05.00	20.00 to 23.00	X	Y	ZONE 08
-04.44 to -02.78	24.00 to 27.00	X	Y	ZONE 09
-02.22 to 00.56	28.00 to 31.00	X	Y	ZONE 10
0.00 to 01.67	32.00 to 35.00	X	Y	ZONE 11
02.22 to 03.89	36.00 to 39.00	X	Y	ZONE 12
Above 03.89	Above 39.00	X	Y	ZONE 13

X = ALWAYS, NEVER, 1 thru 120 minutes; DROP DOWN SELECTION BOX.

Y = ALWAYS, NEVER, 1 thru 120 minutes; DROP DOWN SELECTION BOX.

Suggested Default Thermal Profile



Illustration B. shows the recommended thermal profile setting for most block heating applications. Each CONTROL-X2 controller is pre programmed with the default profile which allows direct PLUG and PLAY operation, out of the box. The default profile also provides a starting point foundation to begin customizing and building your own thermal profile as needed for special applications and usage. Variable Y is not relevant and treated as NULL whenever Timer On is equal to ALWAYS or NEVER.

(Illustration B.)

Temperature C	Temperature F	Time On	Time Off	ZONE
Below -20.00	Below -04.00	ALWAYS	Y	ZONE 01
-20.00 to -18.33	-04.00 to -01.00	ALWAYS	Y	ZONE 02
-17.78 to -16.11	00.00 to 03.00	ALWAYS	Y	ZONE 03
-15.56 to -13.89	04.00 to 07.00	ALWAYS	Y	ZONE 04
-13.33 to -11.67	08.00 to 11.00	ALWAYS	Y	ZONE 05
-11.11 to -09.44	12.00 to 15.00	120	20	ZONE 06
-08.89 to -07.22	16.00 to 19.00	105	20	ZONE 07
-06.67 to -05.00	20.00 to 23.00	90	20	ZONE 08
-04.44 to -02.78	24.00 to 27.00	75	20	ZONE 09
-02.22 to 00.56	28.00 to 31.00	60	20	ZONE 10
0.00 to 01.67	32.00 to 35.00	45	20	ZONE 11
02.22 to 03.89	36.00 to 39.00	30	20	ZONE 12
Above 03.89	Above 39.00	NEVER	Y	ZONE 13