SD series CONTROLLERS
List of OPTIONS

I = Interval Timer
Standard interval timer in the controllers. When started it will continue the count down until it expires
and it will enable the thermostat control during that time. The Maximum preset range may be customized.

D = Delay-before-Start
Includes 2 presettable timers: Interval Timer and Delay Timer.
The Delay Timer counts down a period of time that will elapse before the Interval Timer will be automatically
activated and the Thermostat function will begin and continue until the Interval Timer expires.
Both timers Maximum preset ranges may be customized.

SN = Sauna standard control (60min. max. Interval Timer, 194F, 90C max. preset)
Standard Sauna Control setup.

IR = Infra Red Sauna control (60min. max. Interval Timer, 131F, 55C max. preset)

STM = Steam Bath control (60min. max. Interval Timer, 131F, 55C max.)
Standard Steam Bath Control setup.

STPB = START button on the Face (this option for Rotary Controllers only)
Additional "Start" button on the face plate to Start the timer with a single push. The currently preset time
and temperature will be immediately executed.

AXPB = Auxiliary button on the Face (this option for Rotary Controllers only)
Additional "AUX" button on the face plate to operate additional load output like Light or Fan etc...

SPL = Light Control on existing Relay
This option uses one of the 2 main relays to control an additional Light Bulb load (or fan, or other).
Only one main relay will then be used to control the heating elements.

DPL,ALR = Light Control, Alarm Control additional Relay
This option uses additional relay to control an additional Light Bulb load or Alarm (or fan, or other) output
Main heating elements are still controlled by 2 main relays.

XHP = Extra High Power Relays
Extra High Power up to 40Amp. of controlled load.

SSR = Solid State Relay output Control
Time The output load is switched by a Solid State Relay (high power semiconductor device) rather than by a relay.
The switching operation is quiet and may be controlled in a "smooth" fashion giving better temperature control
capabilities.

HxF(C) = Hysteresis (x degrees F or C)
The Temperature control differential is permanently set (at Factory) to the customer requested value.

INTEL = Intelligent, anticipating Control
An intelligent control mode that estimates the conditions of the system and automatically determines the best
control sequence. This mode is self-learning.

PRC = Proportional Control
Time Proportional control mode. The ON/OFF duty cycle will depend
upon a proximity of the current temperature to the Setpoint.

STBxxF(C) =		Standby Preheat at Fixed "xx" Temperature (using the main heating elements) The controller maintains the idle, factory preset temperature without time limit. The user can switch it OFF. This option uses main heating elements to control the preheat temperature.
STXBxxF(C) =		Standby Preheat at Fixed "xx" Temperature (using extra heating elements) The controller maintains the idle, factory preset temperature without time limit. The user can switch it OFF. This option uses one relay to control a separate preheat element and the other relay is used to control the main heating elements.
PRH	=	Standby Preheat (using the main heating elements) The controller maintains the idle temperature for up to 2 hours (per customer request) after the last expiry of the timer. Idle temperature is usually set to ½ of the temperature preset by the user (or per customer requirements). This option uses main heating elements to control the preheat temperature.
PRHX	=	Standby Preheat (using extra heating elements) The controller maintains the idle temperature for up to 2 hours (per customer request) after the last expiry of the timer. Idle temperature is usually set to ½ of the temperature preset by the user (or per customer requirements). This option uses one relay to control a separate preheat element and the other relay is used to control the main heating elements.
REF	=	Refrigeration (Cooling) control action (not heating) The controller will activate the output load when the temperature is LOWER than the preset.
FRR	=	Freeze Protection Reset Additional function activated to reset (switch OFF) the controller when the temperature drops below the freezing point (0C or 32F, or per customer request).
FRA	=	Freeze Protection Active Additional function activated to turn ON the controller when the temperature drops below the freezing point (0C or 32F, or per customer request).
TLPzzzF(C) =		Temp. Limit zzz deg.F(C) P= positive, N= negative Temperature limit at which all load control relays will be switched OFF and timer reset automatically.
HLP	=	Additional High Limit Probe Additional probe for the High Limit temperature sensing. The High Limit Temperature set point is preset at the factory (per customer request).
PAN	=	Remote Panic (Stop) button input Additional function activated to reset the control when the probe wiring is shorted (for example with external switch).
HLT	=	Pause (Halt) button input Additional function activated to REDUCE the control temperature when the probe wiring is shorted through a 3.9kohm resistor (for example using external switch). HALT time is set to appx. 3 minutes or per customer request. During that time the temperature control will be automatically set to ½ of the preset value.
ENA	=	Remote "Enable" input Additional input for 2-wire external switch that can be used to Enable or Disable operation of the controller.
MRP	=	Maximum Range Preset pot Separate on-board trim-pot for setting of the Maximum Preset range for temperature control.
DF	=	Temperature Differential Preset Control pot Separate on-board trim-pot for setting of the Differential value for temperature control.

BZ   =   Alarm buzzer
                Separate on-board Alarm Buzzer for signaling (per customer request).

BOX   =   Metal Enclosure
                Metal box enclosure for the controller (black, white, Stainless Steel or custom color)

TLK   =   Talking Option
                Additional speech generating board for Spoken Announcements in any language.

MEM   =   On-board memory for scheduled programmable control
                Non-volatile on-board memory for storing of time-scheduled control parameters.

DCS   =   DC Voltage Output
                Additional output with appx. 14VDC, 150mA max. unregulated, available for other
                applications.

REM   =   Remote Control
                Hand Held IR Remote Control for operation of all functions of the controller.

TEL   =   Telephone Remote Control
                Capability to operate the controller via the telephone.

NET   =   Network (Ethernet) connectivity
                Capability to operate the controller via the Ethernet network.

RS485   =   RS485 communication
                Serial Computer/Network communication via RS485.