M.A. SELMON CO., INC.
"UNIQUE PROCESS & MACHINERY CONTROLS"
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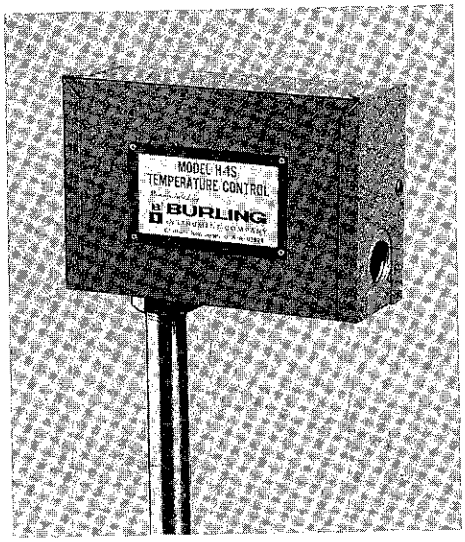
BURLING INSTRUMENTS INC.

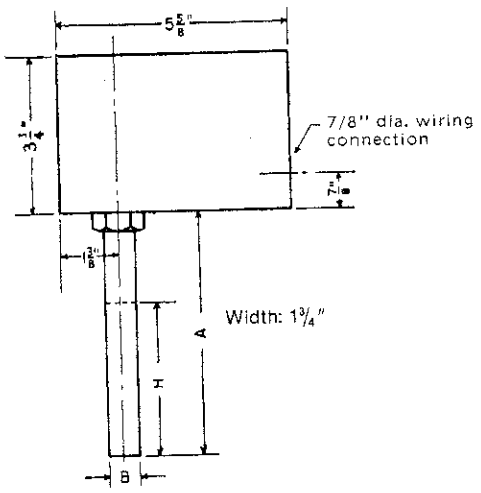
Temperature Control

Model H-1S

- **Heavy Duty Series**
- **Single Switch**
- **NEMA 1 Enclosure**
- **Internal Temperature Adjusting Screw**
- **For Temperatures To 2000°F (1100°C)**
- **F.M. & C.S.A., & U.L. Listed**



Dimensions



HOW TO ORDER

Order model number as shown below.

1. Model H-1S.
2. Select Code from specifications below.
3. Range in °F is standard. Specify if °C is required.
4. Add CSA, FM, UL-R, or UL-L if required.
   - **a.** CSA Certification — Specify "C."
   - **b.** FM Approval — Specify "F," show sealed factory temperature setting, and show manual reset switch (type J). See item 5.
   - **c.** UL-R Listing (temperature regulating service) — Specify "R"
   - **d.** UL-L Listing (temperature limiting service) — Specify "L" and show factory temperature setting.
5. Specify letter for type of S.P.D.T. snap-action switch required.
   - **a.** "N" is standard automatic reset with U.L. rating of 15 amp, 125-250-460 VAC, 1/8 HP, 125 VAC, 1/4 HP, 250 VAC.
   - **b.** "J" is manual reset. See page 21 for U.L. rating.
   - **c.** For higher ratings or wider differentials, see page 21.
6. Specify Tube part number for Code selected. See Specifications below.
7. Specify Mounting Fitting part number from page 20. If not required, specify 00 in code.
   - **a.** If a bushing or union is **not** to be in standard position, specify "C" or "D" dimension in inches.

Model H-1S — [ ][ ][ ] — [ ][ ][ ] — [ ] — [ ][ ][ ][ ][ ][ ] — [ ][ ]

Code | Approvals (if required) | Switch | Tube Part Number | Fitting

Specify "C" or "D" in inches if not in standard position.

Specify if required: ____ **Range in °C; Factory Temp. setting** ____ **°F.**

Specifications of Model H-1S

Approx. shipping weight: 4 lbs.

Code Number	Adjustable Temperature Range Fahrenheit (°F)	Adjustable Temperature Range Centigrade (°C)	Max. Temp. to which Tube can be exposed (°F)	Tube Specifications Active Length (H)	Tube Specifications Overall Length (A)	Tube Specifications Dia. (B)	Tube Specifications Material	Tube Specifications Part No.	[3] Approx. Operating Differential (total) °F	[3] Approx. Operating Differential (total) °C	[3] Approximate Temperature Change per turn of Adjusting Screw °F	[3] Approximate Temperature Change per turn of Adjusting Screw °C	Standard Position of Bushing or Union on tube (If req'd) C or D =	Type A-709 [1] Thermowell immersion Length See page 19
Closest Operating Differentials - Smallest Adjustable Ranges														
10	35 to 200	0 to 90	300	17"	21 3/4"	3/4"	Stn.Stl.	112-50	5	3	37	20	18"	U = 17"
11	100 to 300	40 to 150	"	"	"	"	"	112-50	5	3	37	20	"	"
Medium Operating Differentials - Medium Adjustable Ranges														
21	50 to 300	10 to 150	700	13"	17 3/4"	3/4"	Stn.Stl.	102-40	7	4	50	28	14"	U = 13"
22	250 to 550	125 to 290	"	"	"	"	"	102-40	6	3 1/2	60	33	"	"
23a	450 to 700	225 to 370	"	"	"	"	"	102-40	6	3 1/2	52	29	"	"
23b	550 to 800	290 to 430	1400	"	"	"	Stn.Stl.	109-50	5	3	50	28	"	"
24	700 to 950	370 to 510	"	"	19 3/4"	"	"	109-40	5	3	47	26	"	"
25	900 to 1125	480 to 610	"	"	"	"	"	109-40	4	2 1/2	44	24	"	"
26	1050 to 1250	560 to 675	"	"	"	"	"	109-40	4	2 1/2	43	24	"	"
27	1200 to 1400	650 to 760	"	"	"	"	"	109-40	4	2 1/2	42	23	"	"
Widest Operating Differentials - Greatest Adjustable Ranges														
31	35 to 300	0 to 150	700	8 1/2"	14"	3/4"	Stn.Stl.	102-60	10	5 1/2	75	42	9 1/2"	U = 8 1/2"
32	250 to 700	120 to 370	"	"	"	"	"	102-60	10	5 1/2	87	48	"	"
33	600 to 1000	320 to 540	1400	"	"	"	"	109-70	9	5	72	40	"	"
34	900 to 1250	480 to 675	"	"	"	"	"	109-70	9	4 1/2	67	37	"	"
35	1100 to 1400	590 to 760	"	"	15 3/4"	"	Stn.Stl.	109-60	12	4 1/2	65	36	9 1/2"	U = 8 1/2"
28a	1300 to 1650	700 to 900	2000	"	17 3/4"	3/4" [2]	Inconel	108-20	12	6 1/2	74	41	"	See
29a	1450 to 1800	800 to 1000	"	"	19 3/4"	3/4" [2]	"	108-10	12	6 1/2	67	37	"	page 22,
30a	1650 to 2000	900 to 1100	"	"	"	3/4" [2]	"	108-10	12	6 1/2	65	36	"	Type A 970-3

1. Use only where full immersion length, "U",
2. Also available in .840 dia., heavier wall, at extra cost.
3. For wider differentials see page 21.