

RESISTANCE THERMOMETERS

Especially manufactured for use with Hallikainen Temperature Controllers, (THERMOTROL - THERMODYNE - RESISTOTROL). These bulbs include a built-in precision resistor that forms a part of the Wheatstone bridge of the controller. Bulbs may have either nickel or platinum wound elements. Sheaths are of stainless steel unless otherwise specified. The following codes used in Table I are for type of sensing elements, type and length of leads, and suggested applications.

SENSING ELEMENT CODE:

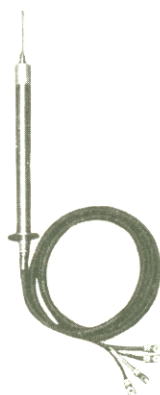
Code Letter	Element Material	Description of sensitive portion only
A	Nickel wound	flat element, 2 15/32" long x 1/16" thick x 7/16" wide, closed stls. stl. sheath
B1	Nickel wound	1 7/8" long x 1/4" O. D., closed stls. stl. sheath
B2	Nickel wound	4" long x 1/4" O. D., closed stls. stl. sheath
C	Platinum wound	2" sensitive length x 1/4" O. D., closed stls. stl. sheath
D1	Nickel wound	1 5/8" long, open stls. stl. sheath
D2	Nickel wound	3 1/2" long, open stls. stl. sheath
E	Platinum wound element	in glass bead, 1/2" long x 1/8" O. D., open stls. stl. sheath
G	Platinum wound	2 1/2" long x 1/4" O. D., closed stls. stl. sheath
H	Nickel wound	1" square x 3/16" thick, silastic covered
I	Platinum wound	1 1/2" x 1/4" O. D., closed stls. stl. sheath
J	Nickel wound	2 1/2" long x 1/4" O. D., closed stls. stl. sheath

EXTENSION LEAD CODE:

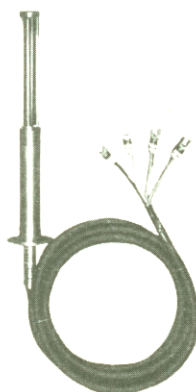
Code Letter	Description
S	4-conductor rubber covered; 5 ft. long standard; other lengths to order
T	4-conductor, each Teflon covered, color coded; 5 ft. long standard, other lengths to order

APPLICATION CODE:

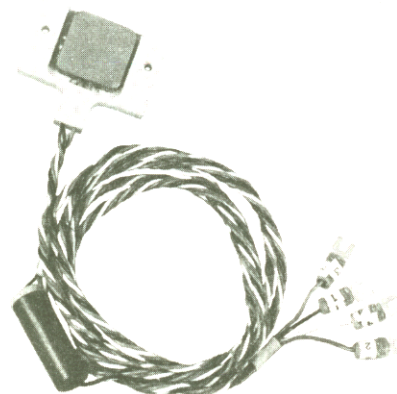
Code Letter	Description
X	For liquids
Y	For air or gases
Z	For metal blocks



Model 1080



Model 1085



Model 1196

TABLE I

Model No.	Range	Mounting	Length Below Mounting	Max. O. D.	Sensitive Element	Leads	Application
1080	—100° F to 300° F	Flange	10"	11/16"	A	S	X
1085	—100° F to 300° F	Flange	7 1/4"	11/16"	D2	S	Y
1106	—100° F to 300° F	1/2" NPT	10"	11/16"	A	S	X
1107	—100° F to 300° F	1/2" NPT	7 1/2"	11/16"	D2	S	Y
1142	—100° F to 600° F	Flange	7 7/8"	11/16"	B1	T	X
1146	—100° F to 800° F	Flange	4 3/8"	1/4"	E	T	Y
1181	—100° F to 1650° F	1/2" NPT	11"	1/4"	G	T	X, Y, Z
1183	—100° F to 1200° F	1/2" NPT	11"	1/4"	G	T	X, Y, Z
1194	—100° F to 300° F	Plain	18"	1/4"	B1	S	X, Z
1196	—100° F to 500° F	Fiberglass Block	Flat	*	H	T	Z
1197	—100° F to 600° F	Flange	1 7/8"	5/16"	D1	S	Y
1216	—100° F to 600° F	Flange	10"	11/16"	B2	T	X
1217	—100° F to 600° F	5/8-18 N. F. thread	4"	1/4"	B2	S	X, Z
1218	—100° F to 600° F	5/8-18 N. F. thread	1 7/8"	1/4"	B1	S	X, Z
1219	—100° F to 600° F	1/2" NPT	10"	11/16"	B2	T	X, Z
1221	—100° F to 400° F	7/8-14 N. F. thread	2-15/32"	13/32"	A	S	X
1224	—100° F to 600° F	Plain	2 1/4"	1/4"	B1	T	X, Z
1225	—100° F to 600° F	1/2" NPT	7 7/8"	11/16"	B1	T	X, Z
1226	—100° F to 600° F	1/2" NPT	5 1/8"	7/8"	D1	T	Y
1254	—100° F to 500° F	Adhesive	Flat	**	H	T	Z
1255	—100° F to 800° F	1/2" NPT	12"	1/4"	G	T	X, Y, Z
1256	—100° F to 800° F	Plain	12"	1/4"	G	T	X, Y, Z
1257	—100° F to 1200° F	Plain	12"	1/4"	G	T	X, Y, Z
1258	—100° F to 1650° F	Plain	12"	1/4"	G	T	X, Y, Z
1260	—100° F to 850° F	Plain	1 1/2"	1/4"	I	T	X, Y, Z
1269	—100° F to 600° F	Flange	7 1/4"	11/16"	D2	T	Y
1281	—100° F to 600° F	1/2" NPT	8"	11/16"	B2	T	X, Y
1330	—100° F to 400° F	Flange	5"	11/16"	A	T	X
1342	—100° F to 600° F	Plain	12"	1/4"	B1	T	X, Z

BULBS FOR SPECIAL APPLICATIONS

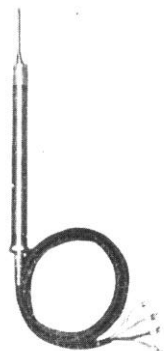
MELT INDEXERS

Model No.	Range		Connection	Length Below Bend	O. D.	Sensitive Element	Leads	Application
1223	—100°F to 600° F	Angle type	Plain	6"	1/4"	B2	S	X, Z
1323	—100° F to 850° F	Angle type	Plain	6"	1/4"	G	T	X, Z

*1" sq. x 1/8" thick sensing element encased in silastic with metal face mounted in a Fiberglas block 2" x 1 3/4" x 1/4" thick.

**1" sq. x 1/8" thick sensing element encased in silastic with metal face.

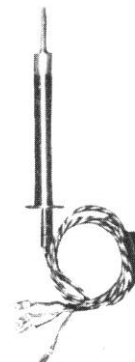
Additional models are always being considered; therefore, if those listed above do not satisfy your needs, please communicate with us on your required needs. Not listed above, but which can be supplied as specials, are resistance thermometers for temperatures to —400° F., thermistors and extremely minute platinum resistance thermometers less than 1/4" O. D. x 1/2" long for operating range —100° F. to 500° F.



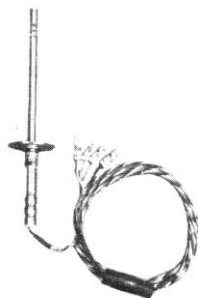
Model 1106



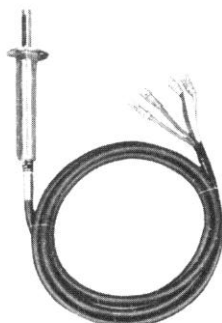
Model 1107



Model 1142



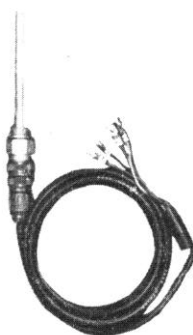
Model 1146



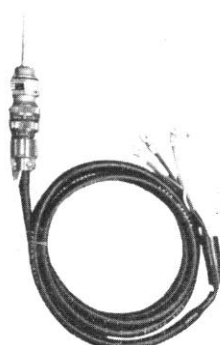
Model 1197



Model 1216



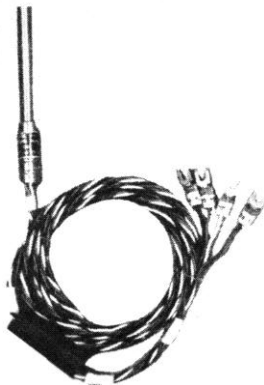
Model 1217



Model 1218



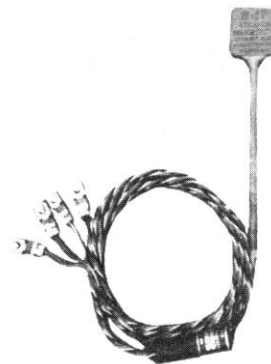
Model 1221



Model 1224



Model 1226



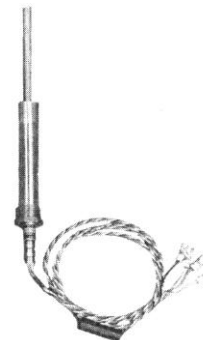
Model 1254



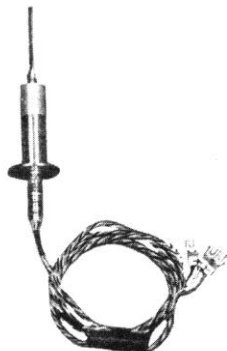
Model 1260



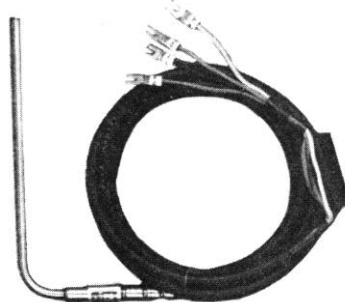
Model 1269



Model 1281



Model 1330



**Model 1223
1323**



Model 1255



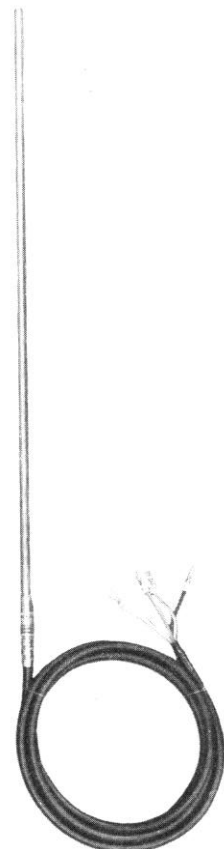
Model 1342



**Model 1256
1258
1257**



**Model 1181
1183**



Model 1194