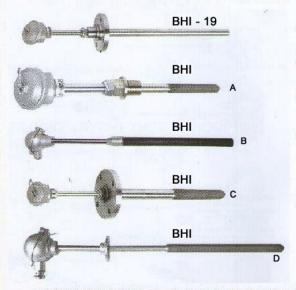
THERMOCOUPLE

High accurate Thermocouples for variety of application

JTM BASE METAL THERMOCOUPLE / TYPE - DESIGN



Type : J, K, T, E, N

Element size (MI) : 0.25, 0.5, 1, 1.5, 3, 4.5, 6, 8 (mm), other sizes

on request

(Non-MI) : 1.2, 1.6, 2, 2.5, 3.2 (mm), other sizes on

request

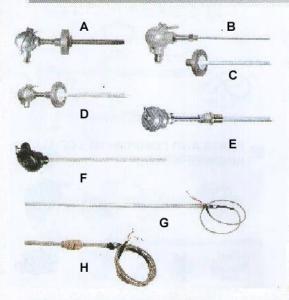
Protection Sheath : Seamless SS304, SS 321, SS316, SS 310,

HRS 446, INCONEL 600/800, Nickel,

Hastalloy, Titanium, Ceramic 610 & C-799, Silicon Carbide Monel etc.

Configuration : Simplex/Duplex/Multipoints

JTM NOBLE METAL THERMOCOUPLE TYPE - DESIGN



BHI -17

Type : R, S, B

Element size : 0.30, 0.35, 0.4, 0.45, 0.5 (mm) other on

request

Protection Sheath : Ceramic (C-799), 610, Inconel, Silicon

carbide, etc.

Configuration : Simplex/Duplex/Multipoints.

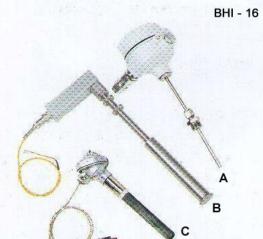
Special : Tri level Thermocouples,

Special cladding (Thimbled) etc.

Hot Blast & Stove dome Thermocouples,

Furnace Temperature Thermocouples

SPECIAL THERMOCOUPLE



- Miniature Thermocouples with minimum 0.25mm Dia
- Squeezd Thermocouples with small tip dia
- Trilevel Thermocouples
- Coated Thermocouples (PTFE, Tungsten Carbide, Ceramic, Steatite etc.
- Thermocouple with IBR Approved Thermowells
- High Temperature Ceramic Spouts Limit.
- Special sensors as per ASTM-E235

RESISTANCE TEMPERATURE DETECTORS

High accurate RTDs for General and Critical applications

JTM MINERAL INSULATED RTDs



Type : Pt 100, 200, 500, 1000, copper

50,53. etc

Element size (MI) : Wire wound ceramic encapsulated

Wire wound Glass encapsulated Thin film ceramic encapsulated

Connection : 2, 3, 4 wire

Accuracy : Class A, B 1/2, 1/3, 1/5, 1/10 DIN

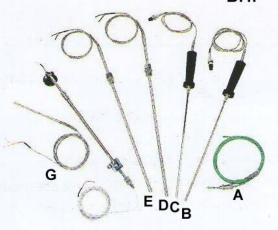
Protection Sheath : SS 304, SS 321, SS 316, SS 310,

Inconel 600/800, HRS 446,

Hastalloy, Monel Etc

JTM SPECIAL RTDs

BHI - 19



- Slide shoe Bearing RTDs
- Vibration proof RTDs for Bearing & DG sets
- Motor & Transformer winding temperature RTDs
- Handheld & Probe in various designs
- RTDs with IBR approved Thermowells
- Strap on RTDs for nuclear
- High Temperature RTDs upto 650°C
- High Accuracy RTDs upto 1/10 DIN
- Semi Standard PRTs.

THERMOWELLS AND PROTECTION TUBES

A wide choice of Thermowells and variety of Protection tubes like Refractory, Stainless Steel, special Ni alloy protection tubes are available for various applications

JTM THERMOWELLS



Material

: SS304, SS 316, SS 316L, SS 321

HRS 446, INCONEL 600/800, 601

: Hastalloy, Monel, Alloy 20

: Titanium etc

Type

Drilled barstock, Fabricated

Construction

Tapered, Straight

Process connection:

Screwed, Flanged

PROTECTION TUBES

BHI-12

CERAMICS

Material : Recrystallised Alumina 99.7%

Type : KER 710 (C-799)

Length : 350, 530, 600, 650, 740, 900, 1030, 1200

1430 mm etc.

OD x ID : 6x4, 8x5, 10x6, 12x8, 15x10, 20x15

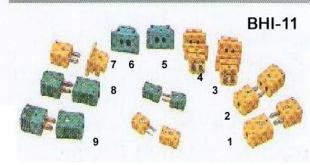
24x18mm etc.

Insulating Tubes : 2/4/6 Holes etc.

OD : 2.8, 3.5, 5.5, 8.5, etc.

ACCESSORIES

CONNECTORS



Ceram Tec

Plug and jack compensated connectors for thermocouples.

J,K,R,S,B,T,E Types

Standard, Miniature, Panel mounted, Simplex, Duplex

Material: Glass filled Nylon and Ceramic

Colour coding: various standards

CONNECTION HEADS



Material

: Die cast Aluminium, Stainless Steel, Plastic etc.

Type

: A, B, AA, DNAG, KNE etc.

Single entry, double entry, miniature

Cable entry

: 3/4" ET, 1/2" NPT/BSP

Protection class

: IP 67, Ex-proof II A/B, II C

ELECTRONICS

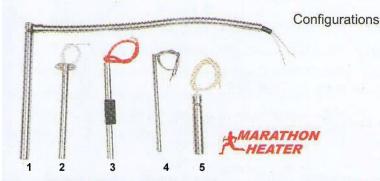


- · Temperature indicators Panel mounted, hand held
- Temperature controllers
- Universal controllers
- Signal Isolators
- Signal Converters RS 232 / 485
- · Head mounted transmitters
- Temperature Scanners
- · Recorders etc.

INDUSTRIAL HEATERS

Marathon Heater (I) Pvt. is Joint Venture between Mararthon Heater Inc., USA & Tempsens Instruments for manufacturing of high quality Industrial Heaters. Marathon Heater is the largest manufacturer of Industrial heaters in USA.

HIGH WATT DENSITY CARTRIDGE HEATER



Swaged in Leads, Crimped on Leads, Post terminals, Right Angle Leads, Teflon Seal, Silicon Rubber Seal, Epoxy Seal, Swaged in Braid, Right Angle Stainless Steel Braid, SS Flexible Conduit, Hex head pipe fittings, Flanges etc.

MICA BAND AND SILICON RUBBER HEATER HEATERS



High quality Mica Band and Silicon Rubber Heater. Custom orders as well as carrying a large variety of stock items available for immediate shipping.

CABLES FOR TEMPERATURE SENSORS & INSTRUMENTATION

BHI-21



Compensating and Extension Cables for thermocouples J,K,T,E,N,R,S,B Types. RTD Cables in three wire & four wire configuration for simplex and six & eight wire for duplex are available.

Wire Gauge

: 14 to 36 gauge (AWG/SWG)

Conductor

: Solid / Multistrand

Insulation

: Single and double fibre glass, teflon, ceramic fibre, silica fibre, SS braided, PVC etc.

Protection

: Armored / Unarmored

Other Cables for Signal, Control and Instrumentation are available with variety of insulation and various configurations

WIRE INSULATION IDENTIFICATION AND APPLICATION GUIDE

INSULATION CODE	INSULATION		ADDEADANCE OF		ADDAGION	FIEWIRITY	WATER	RESISTENCE TO:	
	OVERALL	CONDUCTORS	APPEARANCE OF THERMOCOUPLE GRADE WIRE	TEMP. RANGE INSULATION	ABRASION RESISTANCE	FLEXIBILTY	SUBMERSION	FLAME	HUMIDITY
Р	Polyvinyl Chloride (PVC)	Polyvinyl Chloride (PVC)		40 to 105°C	GOOD	EXCELLENT	GOOD	GOOD	GOOD
T	PTFE or PFA/FEP	PTFE or PFA/FEP	M	267 to 260°C	EXCELLENT	GOOD	EXCELLENT	EXCELLENT	EXCELLEN ¹
K	Kapton	Kapton		267 to 316°C	EXCELLENT	GOOD	EXCELLENT	EXCELLENT	EXCELLEN
S	Silicon	Silicon		40 to 200°C	GOOD	GOOD	EXCELLENT	GOOD	EXCELLEN.
F	Fiber Glass Braid	FTFE/PFA or Fiber Glass		73 to 260°C	GOOD	GOOD	EXCELLENT	EXCELLENT	EXCELLEN
CF	Ceramic Fiber	Ceramic Fiber	B-21-4	73 to 871°C	POOR	GOOD	POOR	EXCELLENT	EXCELLEN'
SF	Silica	Silica		73 to 1038°C	POOR	GOOD	POOR	EXCELLENT	FAIR