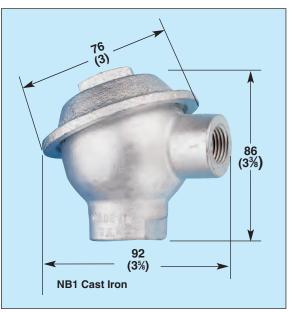
Thermocouple Heads

MOST POPULAR | MODELS HIGHLIGHTED!



76 (3)

Burnished Die Cast Aluminum

NB2



Dimensions: mm (in)

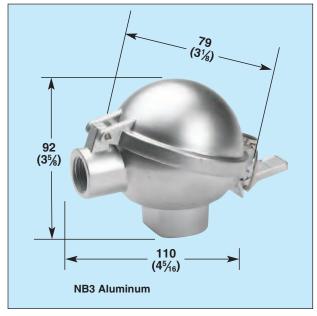


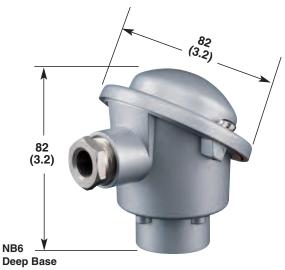


To Order	(Speci	fy Mode	No.)
Material	Туре	Model Number	Price Each
Cast Iron	NB1	NB1-0 NB1-2 NB1-4	\$23 26 28
Burnished Die-Cast Aluminum	NB2	NB2-0 NB2-2 NB2-4	\$23 26 28
Aluminum	NB3	NB3-0 NB3-2 NB3-4	\$25 28 30
A I	ND4	ND4.0	***
Aluminum	NB4	NB4-0 NB4-4	\$23 28
		NB5-0	\$40
Cast Iron	NB5	NB5-2 NB5-4	43 45
Aluminum	NB6	NB6-0 NB6-2 NB6-4	\$23 26 28

Ordering Examples: NB1-0, cast iron head with no terminal block, \$23.

NB6-2, deep base aluminum head with a 2-terminal terminal block (for 1 thermocouple element), \$26.





		Threaded	l Openings	
Terminals	Wt (oz)	Protection Tube Entry	Extension Wire Entry	Features
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	22 23 24	½ NPT	½ NPT	Rugged construction Screw cover with inside thread Moisture and dust resistant Ideal for outdoor use Standard size
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	5 6 6½	½ NPT Standard	½ NPT with compression fitting for ½ to ½" OD wire	Small and lightweight Good corrosion resistance Gasketed, weather resistant Burnished finish Safety chain on cover Medium size
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	8 9¼ 9¾	½ NPT	½ NPT	Hinge top Lightweight aluminum Standard size
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	2½ 3½ 3¼ 3¼	M10 x1 works with % NPT	M16 x 1.5 with compression fitting	Metric Miniature size Good corrosion resistance Uses miniature barrier strip connector (optional)
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	56 57 58	½ NPT	½ NPT with compression fitting	Rugged cast iron High-temperature painted finish Safety chain on cover Standard size
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	8¾ 9¾ 10¾	½ NPT	½ NPT with compression fitting	Deep base Lightweight aluminum Standard size

Bakelite CH-76.



Bakelite CH-78.



Ceramic CH-83.



Ceramic CH-84.



Bakelite CH-77.

Terminal Blocks for Connection Heads

(Order separately or included with heads with -2 or -4 suffixes)

Ceramic Block with Nickel Plated Brass Terminals for NB2 Head for Gage 14 Wire Maximum



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model No.)							
Model No. Price Terminals Wt g (oz)							
CH-49 \$4		2 = single	43 (1½)				
CH-50	6	4 = duplex	57 (2)				

Ceramic Blocks with Brass Terminals for Type NSA, NSB, NSC, and NBS Connection Heads for Max 8-Gage Wire



Model No.	Price	Terminals	Wt g (oz)
CH-47	\$6	2 = single	85 (3)
CH-48	8	4 = duplex	128 (4½)

Ceramic Blocks with Brass Terminals for Type NBN, NB3, NBG, NXT, NB1, and NBB Connection Heads for Max 14-Gage Wire



*For NB1 heads, add suffix "**-NB1**" to model number; no additional charge.

Model† No.	Price	Desc	Material Term		Wt g (oz)
CH-83	\$4	For NB4	Ceramic	2	28 (1)
CH-84	4	For NB4	Ceramic	4	28 (1)
CH-76	4	For NBG,	Bakelite	2	77 (2½)
CH-77	4	NB5, NB6, NB, NB9	Bakelite	3	77 (2½)
CH-78	4	and NB12	Bakelite	4	77 (2½)

†These are alternatives, not standard with "-2" or "-4" suffixes on thermocouple heads.

Thermocouple Heads

MOST POPULAR MODELS HIGHLIGHTED!

Model

Price

\$23

26

28

\$23 26 28

\$23 26

28

\$85

88 91

\$85

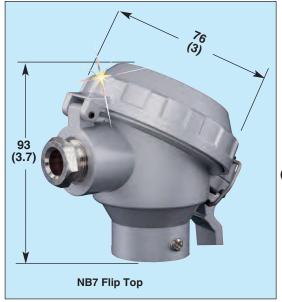
88

91

NEPB-0

NEPB-2

NEPB-4





NB10 Miniature Bakelite

Dimensions: mm (in)

To Order (Specify Model No.) Material

Number Each **NB7-0** \$23 NB7-2 Aluminum NB7 26 NB7-4 28 **NB8-0** \$23 NB8-2 26 NB8 Aluminum **NB8-4** Glass **NB9-0** \$23 Reinforced NB9 **NB9-2** 26 **NB9-4** 28 Nylon

70 86

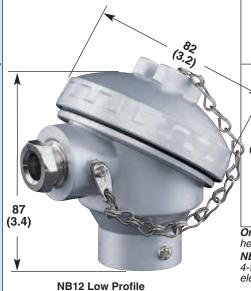


NB10-0 Bakelite NB₁₀ NB10-2 NB10-4 **NB11-0** Aluminum **NB11** NB11-2 NB11-4 NB12-0 NB12 NB12-2 Aluminum **NB12-4** NEPA-0 NEPA-2 NEPA-4 Cast **NEPA** Aluminum Body and

Cap

87 (3.4) **NB9 Glass Reinforced Nylon**

NB8 Domed Top



NSA-0 \$50 53 NSA NSA-2 NSA-4 55 NSB-0 \$50 53 55 **NSB** NSB-2 Cast Iron NSB-4 \$50 NSC-0 NSC NSC-2 53 55 NSC-4

NEPB

Ordering Examples: NB10-0 is a bakelite head with no terminal block, \$23. NB7-4 is a flip-top aluminum head with a 4-terminal terminal block (for 2 thermocouple

elements), \$28.

		Threaded Openings		
	Wt	Protection	Extension	
Terminals	(oz)	Tube Entry	Wire Entry	Features
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	8¾ 9¾ 10¾	½ NPT	½ NPT	Lightweight aluminum construction Flip top Moisture and dust resistant Ideal for outdoor use Standard size
				Small and lightweight
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	8 9 10	½ NPT	½ NPT with compression fitting	Domed top Gasketed, weather resistant Secure screw thread Safety chain on cover Medium size
0 = no terminal block 2 = single element 4 = duplex element	5 6 7	½ NPT	½ NPT wtih compression fitting	 Very lightweight construction Safety chain on cover Good corrosion resistance Standard size
max 14-gage wire 0 = no terminal block	2%			a I Ilitra limburaimbt
2 = single element 4 = duplex element	3 ⁷ / ₈ 4 ⁷ / ₈	½ NPT	% NPT	Ultra lightweight construction Safety chain on cover High temperature plastic
max 14-gage wire	47/			Miniature size
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	4 % 5 % 6 %	½ NPT	3/8 NPT with compression fitting	Miniature size IP 67 Sealed Safety chain on cover Lightweight construction Miniature size
	0.3/			Low profile
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	9¾ 10¾ 11¾	½ NPT	½ NPT	Safety chain on cover Lightweight construction Standard size
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	16½ 17¾ 18¼	¾ NPT	¾ NPT	Explosion resistant head* Rated for: Class III Class I, Group C, D Class II, Groups E, F, G Screw cover
	041/	½ NPT	½ NPT	Moisture and dust resistant
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	21½ 22¾ 23¼			Ideal for outdoor use Utilizes barrier strip connector (optional)
0 = no terminal block 2 = single element 4 = duplex element max 8-gage wire	42 46 48	½ NPT	¾ NPT	Rugged construction Screw cover with inside thread Moisture and dust resistant
0 = no terminal block 2 = single element 4 = duplex element max 8-gage wire	40 44 46	¾ NPT	¾ NPT	Ideal for outdoor use Standard heavy- duty head Cover equipped with safety chain (readily removed
0 = no terminal block 2 = single element 4 = duplex element max 8-gage wire	36 40 42	1 NPT	¾ NPT	without tools) • Standard size





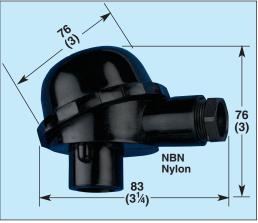
Discount Schedule

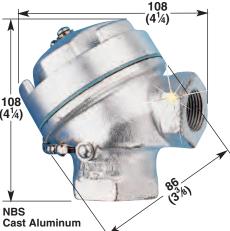
1-10 Units..... Net 11-24 Units.... 5% 25-100 Units... 10%

NEMA 4X (IP66)
Rated Heads Available.
Please Consult our
Technical Quotations
Department

*Note: The use of explosion resistant heads does not imply that a complete assembly is either explosion proof or intrinsically safe. It is the user's responsibility to determine suitability of materials for an installation.

Thermocouple Heads





108 (4¹/₄) 133 $(5\frac{1}{4})$

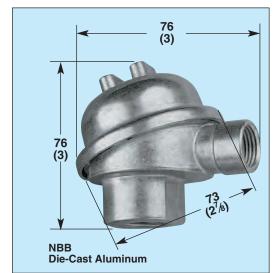




NBG Bakelite Glass Fiber



HEPTX Feraloy® Iron Alloy



Dimensions: mm (in)

Die	2001	ınt	201	har	liil
		41111	20		ıuı

1-10 Units.... Net 101 and Up, 11-24 Units 5% 25-100 Units . . . 10% Consult Sales



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model No.)								
Туре	Model Number	Price Each						
NBN	NBN-0 NBN-2 NBN-4	\$19 22 24						
NBG	NBG-0 NBG-2 NBG-4	\$19 22 24						
NBB	NBB-0 NBB-2 NBB-4	\$23 26 29						
NBS	NBS-0 NBS-2 NBS-4	\$30 34 36						
NEP-T	NEP-T0 NEP-T2 NEP-T4	\$75 77 79						
NXT	NXT-0 NXT-2 NXT-4	\$27 30 32						
HEP-TX	HEP-TX-0 HEP-TX-2 HEP-TX-4 HEP-TX70	\$80 83 85 85						
	NBN NBG NBS NEP-T	Type Model Number NBN NBN-0 NBN-2 NBN-2 NBN-4 NBG NBG-0 NBG-2 NBG-4 NBB NBB-0 NBB-2 NBB-4 NBS NBS-0 NBS-2 NBS-4 NBS-1 NBS-4 NBS-1 NBS-4 NBS-2 NBS-4 NBS-1 NBS-4 NBS-1 NBS-2 NBS-4 NBS-2 NBS-4 NBS-1 NBS-2 NBS-4 NBS-1						

Note: Barrier strips are utilized when more than 4 connections are required. e.g.: dual element 3-wire RTD.

Transmitter may be mounted in most heads. Transmitter may not be mounted in NB4 and only the smallest transmitters can fit the NB2 head by special order.

Check transmitter dimensions identified by individual product specifications as well as the internal dimensions for the head given

Ordering Example: NEP-T4, cast iron thermocouple head with aluminum cap, \$79.

		Threaded Openings		
Terminals	Wt (oz)	Protection Tube Entry	Extension Wire Entry	Features
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	3 4 5	½ NPT	Supplied with nylon bushing for plastic covered extension wire to 0.24" to 0.40" OD	Easy access to terminal block Suitable for use in ambient temperatures to121°C (250°)°F Moisture and dust-resistant Ideal for chemical plant use Excellent corrosion resistance Very light weight Standard size
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	6 7 8	½ NPT	½ NPT	 Noncombustible Heat proof Acid resistant Alkali resistant Standard size
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	6 7 8	½ NPT	½ NPT	Good corrosion resistance Lightweight Bayonet cover readily removed without tools Easy access to terminal block Moisture and dust-resistant Standard size
0 = no terminal block 2 = single element 4 = duplex element max 8-gage wire	15 18 20	½ NPT	½ NPT	Good corrosion resistance Lightweight Cover, equipped with safety chain, easily removed Moisture and dust-resistant Standard size
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	75 76 76	½ NPT	½ NPT	Explosion resistant head* Rated for Class I, Group C, D Class II, Groups E, F, G Class III Screw cover with inside thread Moisture and dust resistant Ideal for outdoor use Utilizes barrier strip connector (optional)
0 = no terminal block 2 = single element 4 = duplex element max 14-gage wire	11 12 ¹ / ₄ 12 ³ / ₄	½ NPT	½ NPT	Tall cover with hinge top Ideal for big transmitters Utilizes barrier strip connector (optional) Medium size
0 = no terminal block 2 = single element 4 = duplex element 70 = for mounting TX70 Transmitter max 14-gage wire	62 64 64 66	1 NPT	1 NPT	Explosion resistant head for 2-wire transmitter* Rated for: Class I, Div 1&2, Groups C, D Class II, Div 1 Groups E, F, G, Class III Moisture/dust-resistant Utilizes barrier strip connector (optional)

*Note: The use of explosion resistant heads does not imply that a complete assembly is either explosion proof or intrinsically safe. It is the user's responsibility to determine suitability of materials for an installation.

Bi-Metal Thermometers for Head & Well Assemblies See Page E-11 for Additional Models

Model J (Shown)

\$ 1 1 4

2½", 4" and
6" Lengths

Shown smaller than actual size.

- Head Can Be Tilt-Adjusted Through a Full 90° Angle
- ✓ All Stainless Steel Welded Construction
- ✓ External Recalibration
- Rust and Corrosion Proof, Leakproof, Hermetically Sealed
- ✓ Sensitive Bi-Metal Element Silicone
- Dampened for Minimum Pointer Vibration and Maximum Heat Transfer
- ✓ Accuracy—1% of Range
- ✓ Use of Thermowell Is Recommended for Pressure Applications
- ✓ Overrange Protection— 50% Up to 500°F

Thermowells Accept: Models A, B, G, H, L, R and S

Ceramic Fiber Insulated Thermocouple Elements for Head & Well Assemblies

- Standard 12" Long Thermocouple Elements
- ✓ Insulation Temperature Rating Up to 2200°F
- Available In Type K, E and J Calibrations

See Additional Probes in Section A.

To Order (Specify Model Number)

300 mm (12") Long with Insulation. Plus 13 mm (1/2") Stripped Ends Standard

AWG Wire Size		Price 12"	Price Add'I 6" or Fraction	Type E	Price 12" Lenath	Price Add'I *6" or Fraction	Type J	Price 12"	Price Add'l 6" or Fraction
14	туре к XC-14-K-12	\$17	\$3	XC-14-E-12	\$17	\$3	туре 3 XC-14-J-12	\$17	\$3
20	XC-20-K-12	16	2	XC-20-E-12	16	2	XC-20-J-12	16	2
24	XC-24-K-12	16	2	XC-24-E-12	16	2	XC-24-J-12	16	2

*6" = 150 mm ** Silica models also available, see page A-34.

XC Series
Starts at

\$16

Ordering Example: XC-20-K-12, 20 AWG Type K thermocouple, 300 mm (12') long with high temperaturte Nextel™ braided ceramic fiber insulation, \$16.