

THERMOCOUPLE WITH HEAD ENCLOSURE WITH VARIOUS HEAD EXTENSIONS

MAIN FEATURES

Mineral insulated cable
Crimp-on-pot sealed
Spring loaded sheaths
Various extensions / connections
Exchangeable Inserts

SUGGESTED APPLICATIONS

Liquid & gaseous mediums
Power & Utilities
Water treatment plants
Furnace, Ovens & Boilers
Machineries, Plants & Tanks



THERMOCOUPLE WITH HEAD ENCLOSURE

BASIC DESCRIPTION

Reference standard : IEC 60584
Sensor type : K - Type / J - Type / T - Type / E - Type / N - Type
Temperature Range : K = -200°C to +1250°C / J = 0°C to +750°C
T = -250°C to 350°C / E = -200°C to +900°C / N = -270°C to +1260°C
Accuracy : Standard ($\pm 2.2^{\circ}\text{C}$ / $\pm 0.75\%$ of Full Scale) for K / J / N - types
Accuracy : Standard ($\pm 1.7^{\circ}\text{C}$ / $\pm 0.50\%$ of Full Scale) for E - type
Accuracy : Standard ($\pm 1.0^{\circ}\text{C}$ / $\pm 0.75\%$ of Full Scale) for T - type
Internal leads : Mineral insulated cable with compact mass of Magnesium Oxide, welded at element end and terminated at top of the sheath by using PTFE coated multi stranded copper wire
Termination : Pot sealed

PRODUCT SPECIFICATION

Sensor : K-type, Standard, Duplex, 3-Wire
Sensor material : SS 316
Sensor diameter : $\varnothing 6$ mm
Sensor length : 300 mm

STANDARD SPECIFICATION

WITHOUT CONNECTION [CODE : HE]

Head extension: No connection
Process connection: Not applicable
Wire combination: Yellow (+) / Red (-)

OTHER VERSIONS

WITH CONNECTION [CODE : H&F]

Head extension: Fixed connection
Head extension length: 50mm
Process connection: $\frac{1}{2}$ " NPT (M)
Wire combination: Yellow (+) / Red (-)

WITH CONNECTION [CODE : HE]

Head extension: Adjustable connection
Head extension length: 50mm
Process connection: $\frac{1}{2}$ " NPT (M)
Wire combination: Yellow (+) / Red (-)

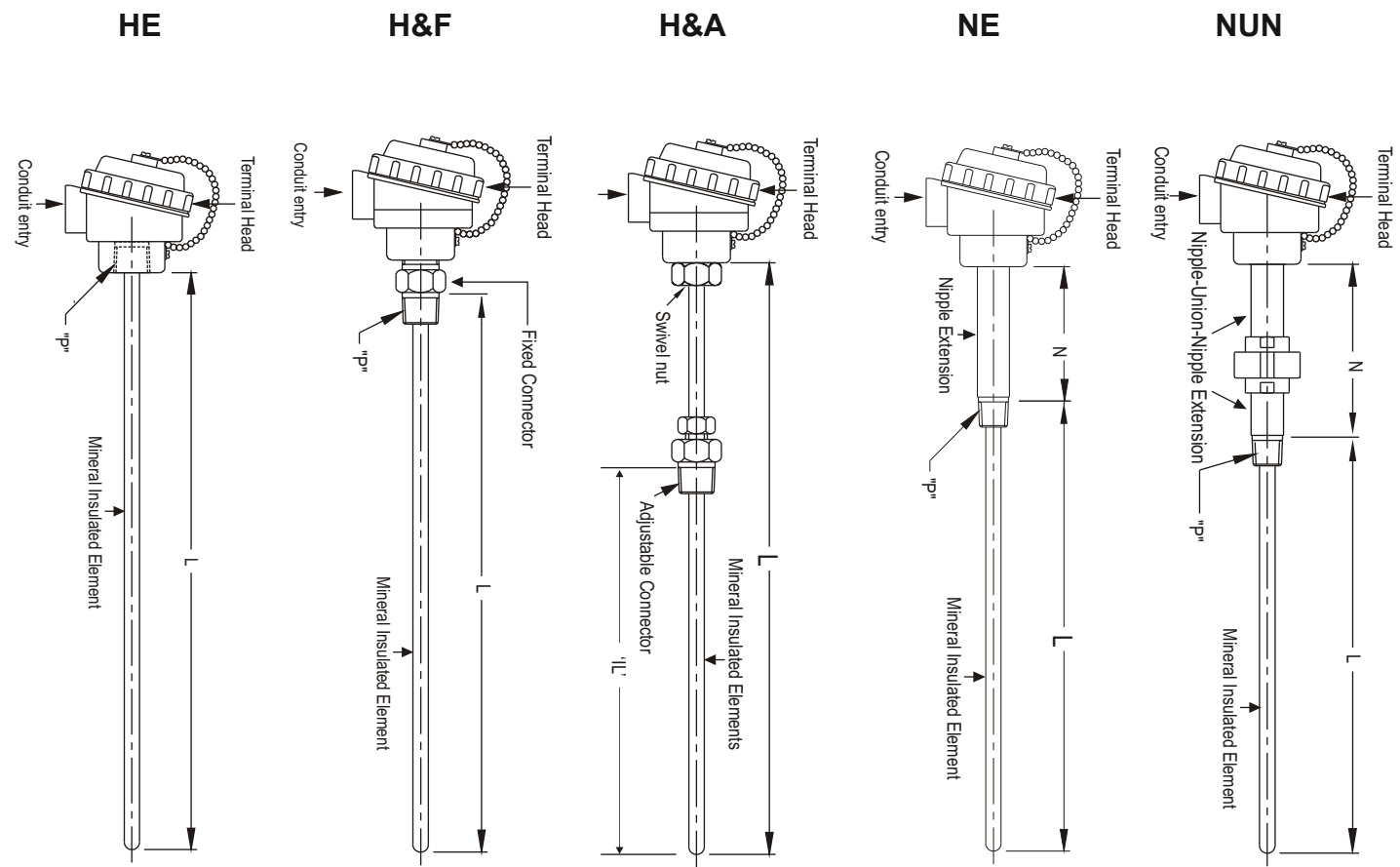
WITH CONNECTION [CODE : NE]

Head extension: Nipple connection
Head extension length: 100mm
Process connection: $\frac{1}{2}$ " NPT (M)
Wire combination: Yellow (+) / Red (-)

WITH CONNECTION [CODE : NUN]

Head extension: Nipple-Union-Nipple connection
Head extension length: 150mm
Process connection: $\frac{1}{2}$ " NPT (M)
Wire combination: Yellow (+) / Red (-)

REFERENCE DRAWINGS



MODEL CODING

MODEL	-	ELEMENT	SHEATH MATERIAL	SHEATH DIAMETER	SHEATH LENGTH	/
HE=Thermocouple with Head Enclosure H&F = Thermocouple with Head & Fixed Connection H&A = Thermocouple with Head & Adjustable Connection NE = Thermocouple with Nipple Extension NUN = Thermocouple with NUN Extension		K1 = K-type (Fe-CuNi), Standard, Simplex K2 = K-type (Fe-CuNi), Standard, Duplex J1 = J-type (NiCr-NiAl), Standard, Simplex J2 = J-type (NiCr-NiAl), Standard, Duplex T1 = T-type (Cu-CuNi), Standard, Simplex T2 = T-type (Cu-CuNi), Standard, Duplex E1 = E-type (NiCr-CuNi), Standard, Simplex E2 = E-type (NiCr-CuNi), Standard, Duplex N1 = N-type (NiCrSi-NiSiMg), Standard, Simplex N2 = N-type (NiCrSi-NiSiMg), Standard, Duplex	S16 = SS 316 S6L = SS 316L S10 = SS 310 S46 = SS 446 N60 = INCONEL 600	S3 = Ø3mm S6 = Ø6mm S8 = Ø8mm S7 = Ø12mm S4 = Ø4.5mm S5 = Ø5mm S9 = Ø10mm	L = Insertion length	

ENCLOSURE PROTECTION	CONDUITS	/	HEAD EXTENSION MATERIAL	EXTENSION TYPE	EXTENSION LENGTH	/	PROCESS CONNECTION	/	OTHER OPTIONS
WP = Weather proof FP = Flame proof, IIA, IIB EP = Explosion proof IIC	1N = 1 No. x ½" NPT (F) 2N = 2 Nos. x ½" NPT (F) 1E = 1 No. x ¾" ET (F) 2E = 2 Nos. x ¾" ET (F) 1M = 1 No. x M20x1.5P (F) 2M = 2 Nos. x M20x1.5P (F)		S04 = SS 304 S16 = SS 316 S6L = SS 316L	XX = For 722E / 732E 742E NN = Nipple (for 752E) NU = Nipple-Union-Nipple (for 762E)	050 = 50 mm 100 = 100 mm 150 = 150 mm		M2N = ¼" NPT (M) M2B = ¼" BSP (M) M4N = ½" NPT (M) MBN = ½" BSP (M) M2M = M12 X 1.0P M4M = M20 X 1.5P M3B = ¾" BSP (M)		TS4= SS 304 TAG PLATE TS6= SS 316 TAG PLATE CC = 3 - point factory calibration certificate TT = Head mount temperature transmitter, 4~20mA HH = Head mount TT, 4~20mA + HART SC = Suitable conduit connections MP = Mounting plate for transmitter mounting

ORDERING EXAMPLE TC-HE-K1-S16-S6-XXX-FP.S04-XX-XXX-M4N/TS4.CC...

QUICK ORDER DETAILS / FEEDBACKS