

HT 4010 Hoge temperatuur thermokoppel tot 1300°C, buis 15x2mm

Protection tube

Construction	Closed-end tube
Insertion length	Customer to specify
Diameter	15x2.0mm standard, other diameters possible
Process connection	Sliding flange model MFA (shown)

Materials

Tube material	Customer to specify
A) 500 °C	St 35.8 (1.0305)
B) 700 °C	St 35.8 Enamel coated
C) 1200 °C	SS310 X15CrNiSi 2520 (1.4841)
D) 920 °C	SS316/L - (1.4401/1.4404)
E) 1160 °C	Inconel 600
F) 1200 °C	SS446 X10CrAl24 (1.4762)
G) 1150 °C	Sicromal 11 X18CrNi28 (1.4749)
H) 1300 °C	Kanthal AF

Connection head

Material	Aluminium or Stainless Steel
Cable entry	M20x1.5 standard, other threads possible

Measuring insert

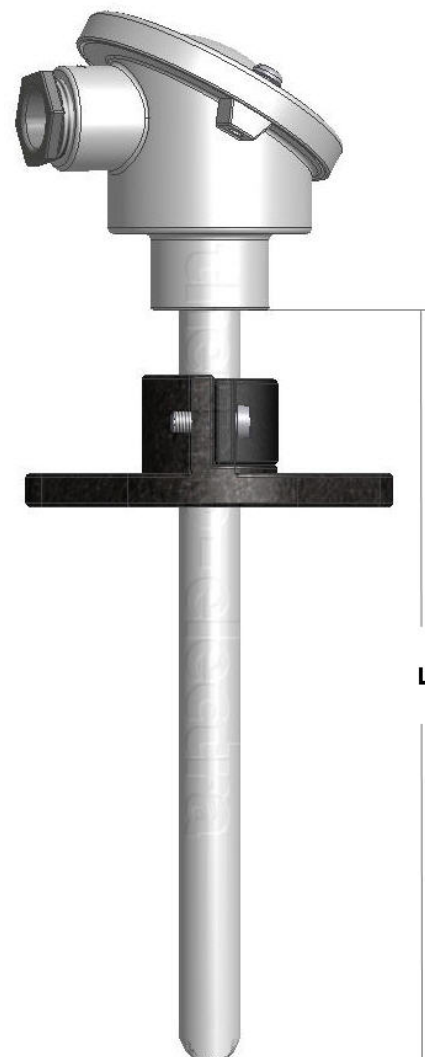
Type	Mineral or Ceramic insulated
------	------------------------------

Thermocouple

Calibration	K, J, N, R, S or B
For duplex	KK, JJ, NN, RR, SS or BB
Accuracy	According to IEC 60584-1

Options

Swing-Cover head	DAN, transmitter direct mounted on measuring insert
High Swing-Cover head	DAN-H, transmitter in cover, insert with ceramic block



15

Thermokoppel kleurcodes

Thermocouple Extension Type	ANSI	IEC
JX + Iron - Constantan ®		
KX + Chromel ® - Alumel ®		
TX + Copper - Constantan ®		
EX + Chromel ® - Constantan ®		
NX + Microsil ® - Nisil ®		
SX + Copper - Alloy 11		
BX + Copper-S - Copper-E		

Toleranties volgens IEC 584-2

Type	Class	Temperature range	Fixed value °C	Tolerance to temp. t (°C)
T	1	- 40°C to + 350°C	± 0,5	± 0,004 · t
	2	- 40°C to + 350°C	± 1	± 0,0075 · t
	3	- 200°C to + 40°C	± 1	± 0,015 · t
E	1	- 40°C to + 800°C	± 1,5	± 0,004 · t
	2	- 40°C to + 900°C	± 2,5	± 0,0075 · t
	3	- 200°C to + 40°C	± 2,5	± 0,015 · t
J	1	- 40°C to + 750°C	± 1,5	± 0,004 · t
	2	- 40°C to + 750°C	± 2,5	± 0,0075 · t
	3	-	-	-
K and N	1	- 40°C to + 1000°C	± 1,5	± 0,004 · t
	2	- 40°C to + 1200°C	± 2,5	± 0,0075 · t
	3	- 200°C to + 40°C	± 2,5	± 0,015 · t
R and S	1	0°C to + 1600°C	± 1,0	± [1+0,003 ·(t-1100)] °C
	2	0°C to + 1600°C	± 1,5	± 0,0025 ·t
	3	-	-	-
B	1	-	-	-
	2	+ 600°C to + 1700°C	± 1,5	± 0,0025 ·t
	3	+ 600°C to + 1700°C	± 4	± 0,005 ·t