Thermocouple for AMK/AKK/AK/BMK/BK

Precious - and non- precious metal

Data sheet 9107

FRODE PEDERSEN

Application

- For installation/exchange in our standard thermocouple assemblies
- For the following complete sensors
  - Data sheet 1101 T/C type AMK
  - Data sheet 1102 T/C type AKK
  - Data sheet 1103 T/C type AK
  - Data sheet 1104 T/C type BMK
  - Data sheet 1105 T/C type BK

Technical features

- Thermocouple type K, N, R, S or B acc. to IEC 584-1
- Tolerance acc. to IEC 581-2
- Delivered with or without ceramic insulation

Ordering

The requested sensor is selcted from the table below
The colour code means:

Standard:	Built of standard modules (short delivery time)
Variant:	Modified standard modules
Special:	Special versions and material. We are specialists in temperature measurement. Please contact us and we shall do our utmost to solve your specific measuring tasks

Thermocouple for AMK/AKK/AK

Thermocouple for BMK/BK

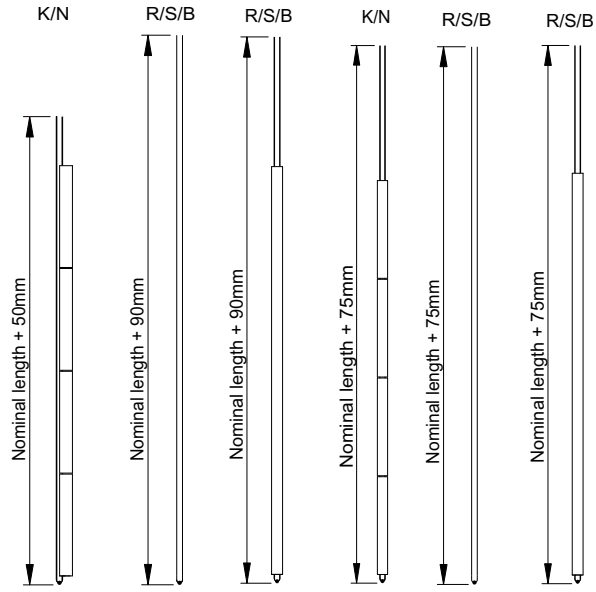

Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6

Ordering information

Specification number 9107- **Sensor**

Type

Sensor	T/C type	Data sheet	Add length	
BMK	Non-precious	1104	75 mm	0
BK	Non-precious	1105	75 mm	1
BK	Precious	1105	50 mm	2
AMK/AKK/AK	Non-precious	1101/1102/1103	50 mm	3
AMK/AKK/AK	Precious	1101/1102/1103	90 mm	4
Special:				s

Thermocouple type

Type IEC	Material	Diam. mm	Temperature °C Cont.	Shortly	
J	Fe-CuNi	1.0	800	850	0 0
J	Fe-CuNi	1.5	800	850	0 1
K	NiCr-Ni	1.0	800	1000	0 2
K	NiCr-Ni	1.5	900	1100	0 3
K	NiCr-Ni	2.0	1000	1200	0 4
K	NiCr-Ni	3.0	1000	1200	0 5
N	Nicrosil-Nisil	1.0	1050	1150	0 6
N	Nicrosil-Nisil	1.5	1050	1200	0 7
N	Nicrosil-Nisil	2.0	1150	1250	0 8
N	Nicrosil-Nisil	3.0	1150	1250	0 9
S	Pt10%Rh-Pt	0.3	1300	1600	1 0
S	Pt10%Rh-Pt	0.35	1400	1600	1 1
S	Pt10%Rh-Pt	0.5	1450	1600	1 2
R	Pt13%Rh-Pt	0.3	1300	1600	1 3
R	Pt13%Rh-Pt	0.35	1400	1600	1 4
R	Pt13%Rh-Pt	0.5	1450	1600	1 5
B	Pt30%Rh-Pt6%Rh	0.5	1500	1800	1 6
Special:					s s

Tolerance acc to IEC 584-2

0	Class 2, for K and N, i.e. ±2.5°C or 0.0075 x t_{actual} (°C)	2)
1	Class 2, for R, S and B, i.e. ±1.5°C or 0.0025 x t_{actual} (°C)	2)
2	Class 1, for K and N, i.e. ±1.5°C or 0.0040 x t_{actual} (°C)	2)

Note 2: The highest value apply

Number of thermocouples

0	1
1	2

Nominal length (mm) 1)

0 5 0 0	500
0 7 1 0	710
1 0 0 0	1000
1 4 0 0	1400
2 0 0 0	2000
x x x x	Special

Note 1: Total length is nominal + add length (see 1. digit)

Insulation, ceramic

0	None (Standard for precious T/C). Fig. 2 og 5
1	D=5.5 L=50mm 2-bore insulation tube, KER 610. f/1.5mm wire. Fig 4
2	D=5.5 L=50mm 4-bore insulation tube, KER 610. f/1.0mm wire. Fig 4
3	D=6 L=50mm 1-bore insulation tube, KER 610. f/3mm wire. Fig 1
4	D=8.5 L=50mm 4-bore insulation tube, KER 610. f/2mm wire. Fig 1
5	8.5 OD. 2.5mm ID 4-bore insulation rod, KER 710. Fig 3 and 6
6	5.5 OD. 1.8mm ID 4-bore insulation rod, KER 710. Fig 3 and 6
s	Special:

Accesessories

Protective tube: See data sheet 9111

Customer information

Name:

Tel.: