

TC10 North American Industrial Thermocouple Assembly



Thermocouples

TC10 - Industrial Thermocouple Assembly

Sensor Element:	■ Type K (NiCr-Ni), ■ Type J (Fe-CuNi), ■ Type E (NiCr-CuNi), ■ Type N (NiCrSi-NiSi), ■ Type T (Cu-CuNi)
Temperature range:	-200 °C to +1260 °C (depending upon element)
Number of sensors:	■ 2-wire single circuit ■ 4-wire dual circuit
Classification tolerance:	■ Class 2 and class 1 per DIN EN 60584 ■ ISA standard and special to ANSI MC96.1-1982
Measuring point:	Ungrounded or grounded
Electrical approvals:	CSA, FM, ATEX/IEC, NAMUR
Options:	■ Lengths and diameters standard or customer specific ■ Transmitter mounted directly within connection head or on measuring insert DIN plate ■ Calibration - single point and multiple points ■ Material traceability of the thermocouple alloys, metal sheath and mineral insulation ■ Selectable accuracy tolerance ■ Exchangeable measuring insert ■ Special designs and materials ■ Explosion protection: CSA, FM, ATEX (EEx-d) ■ Intrinsically safe version: ATEX (EEx-i) ■ Non-sparking version: ATEX (EEx-n) ■ Thermocouple transmitter matching

Features:

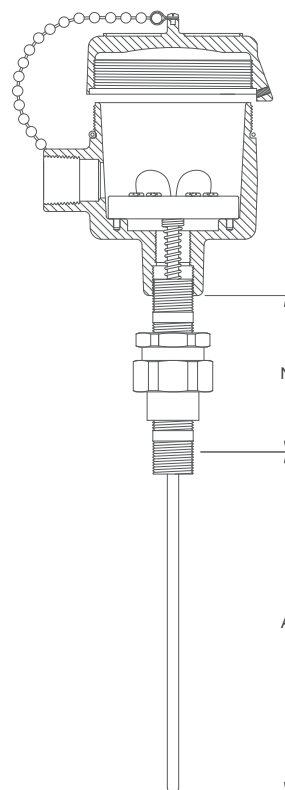
- The sensor can be mounted into a thermowell or directly into a process with the use of a fixed, spring loaded or compression process fitting.
- The assembly can be supplied with or without a transmitter. Transmitters convert the millivolt input from the thermocouple to a linear analogue or digital output (commonly 4-20 mA). This signal reduces potential inaccuracies in the circuit and negates the requirement for thermocouple extension wire.
- The assembly has electrical approvals for explosion proof hazardous locations, intrinsic safety, ingress protection and general purpose areas.
- Electrical authorities that have registered these approvals include CSA, FM, ATEX/IEC, and NAMUR. The approvals can be with or without an attached thermowell. A specially designed and patented integral flame path fitting makes it possible when supplied without a thermowell.
- The thermocouple sensors available for this assembly are provided with a variety of sheath materials including austenitic 300 series and ferritic 400 series stainless steels, corrosion resistant and high temperature oxidation resistant alloys.
- Thermocouple diameters range from 0.125 inch to 0.250 inch and 2 mm to 8 mm. Standard diameters are 0.125 inch & 0.250 inch also 3 mm & 6 mm.
- The thermocouple sensor can be spring-loaded ensuring a positive contact to the base of a thermowell bore.
- Thermocouple temperature ranges are dependent on the sheath & conductor diameter, element calibration, and sheath material.
- A variety of neck extensions are possible. They provide a fixture from the enclosure (connection head) to the process or thermowell. The standard neck extensions are the nipple-union-nipple or the male threaded neck tube. These extensions allow for directional rotation of the head for field wiring as well as a positive quick disconnection of the assembly from the process or thermowell.



TC10 Industrial Thermocouple Assembly

TC10 series thermocouples are industrial assemblies supplied with or without a temperature transmitter. An extensive range of elements, connection heads, insertion lengths, neck lengths, and process connections can be individually selected for the appropriate application. Replacement sensors can also be configured for this model.

Thermocouples in this series can be inserted directly into a process or combined with a variety of thermowell designs.



Applications:

TC10 series assemblies are suitable for most industrial and commercial applications including:

- Chemical and petrochemical industries
- Energy and power plant technology
- Furnaces, kilns, ovens and boilers
- Incinerators
- Machinery, plant and tank measurement
- Oil and gas industries
- Offshore exploration and drilling
- Pipeline control
- Power and utilities
- Pulp and paper
- Water and wastewater treatment



TC10-2 Industrial Thermocouple Assembly Spring Loaded (Head Internal)

TC10-2 thermocouples are industrial assemblies supplied with or without a temperature transmitter. An extensive range of thermocouple calibrations, connection heads, insertion lengths and neck lengths can be individually selected for the appropriate application.

Thermocouples in this series can be inserted directly into a variety of thermowell configurations. Spring loading is achieved within the termination head utilizing a self-gripping spring or spring loaded DIN plate.

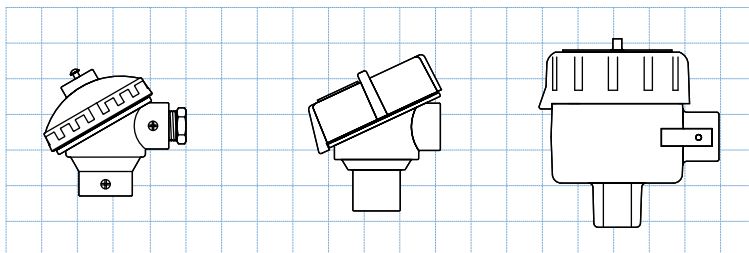
Replacement sensors can also be configured for this model.

Features:

- The sensor is designed to be mounted into a thermowell.
- The assembly has electrical approvals for explosion proof hazardous locations, ingress protection and general purpose areas.
- Electrical authorities that have registered these approvals include CSA, FM and ATEX. The approvals can be with or without an attached thermowell. Our patented integral flame path is required when supplied without a thermowell.
- The thermocouple sensor is spring-loaded ensuring a positive contact to the base of a thermowell bore.

Connection Heads

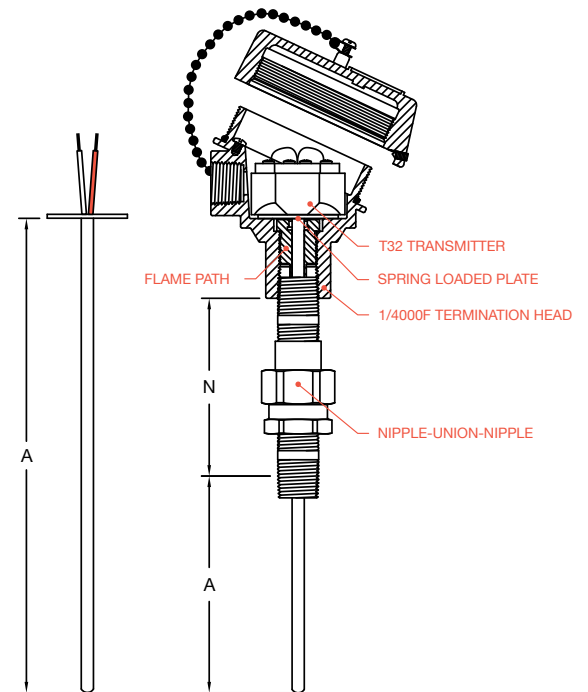
Imperial Grid 1" x 1"



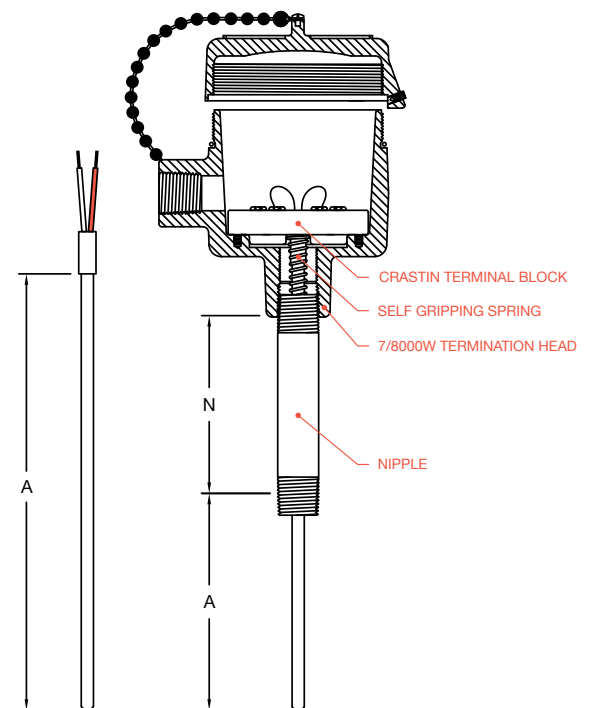
KN4-A
KN4-P

1/4000F
1/4000S

7/8000W



THERMOCOUPLE ASSEMBLY SAMPLE
TC10-2-0-I-D-C-1AF13-6-FG-060-A-1-1-P-00600-Z



THERMOCOUPLE ASSEMBLY SAMPLE
TC10-2-0-I-S-C-7AW13-1-EG-030-B-1-1-P-00600-Z

Create your product part number by selecting the appropriate assembly items from each of the categories below.

Enter the item code into the applicable box to generate the part number.

Note: Some configurations are unavailable. Your Wika sales representative will notify you if you have made an incorrect selection.

[illegible]

13	Sheath material	
	P	Stainless steel 316 / 316 L (1.4401 / 1.4435)
	O	Stainless steel 310 (1.4841)
	J	Inconel® 600 (2.4816)
	I	Hastelloy® X (2.4665)
	T	Stainless steel 446 (1.4762)
	H	Hastelloy® C276 (2.4819)
14	A-Dimension (A) - Sensor Insertion Length	
	*****	Please specify (e.g. 84 mm = 00084) (e.g. 9.5 inch = 00950)
15	Certificates	
	1	Yes ³
	Z	Without
	Replacement Sensor 'A'-Dimension	
	Self gripping spring without Flame Path	'A' + 'N' + 1 7/8"
	Self gripping spring with Flame Path	'A' + 'N' + 2 3/8"
	Spring loaded plate without Flame Path	'A' + 'N' + 1 7/8"
	Spring loaded plate with Flame Path	'A' + 'N' + 1 7/8"

9	N-Dimension (N) - Neck Extension Length	N-Dimension in units (e.g. 6.0" = 660, 150 mm = 150) Up to 12.0" (300 mm) Use Increments of 1.0" (25 mm)
	***	Without
	ZZZ	
10	Thermocouple sensor	
	A	Type K (NiCr-NiAl) / 0...+1260 °C
	B	Type K (NiCr-NiAl) / 0...+1260 °C Special Limits of Error ²
	C	Type J (Fe-CuNi) / 0...+760 °C
	D	Type J (Fe-CuNi) / 0...+760 °C Special Limits of Error ²
	E	Type N (NiCr-Si-NiSi) / 0...+1260 °C
	F	Type N (NiCr-Si-NiSi) / 0...+1260 °C Special Limits of Error ²
	G	Type E (NiCr-CuNi) / 0...+870 °C
	H	Type E (NiCr-CuNi) / 0...+870 °C Special Limits of Error ²
	J	Type T (Cu-CuNi) / -200...+370 °C
	K	Type T (Cu-CuNi) / -200...+370 °C Special Limits of Error ²
11	Thermocouple junction	
	1	Single Ungrounded
	2	Single Grounded
	3	Dual Ungrounded
	4	Dual Grounded
12	Sensor diameter	
	1	1/4 inch / 0.250 inch (6.35 mm)
	8	3/8 inch / 0.375 inch (9.53 mm)
	D	6.0 mm (0.235 inch)

6	Instrument x Conduit entry
11	1/2 NPT x 1/2 NPT
13	1/2 NPT x 3/4 NPT
12	1/2 NPT x M20x1.5
31	3/4 NPT x 1/2 NPT (reducer)
33	3/4 NPT x 3/4 NPT
32	3/4 NPT x M20x1.5
ZZ	Without
7	Terminal block / Transmitter
1	Grastin terminal block
2	Ceramic terminal block
3	T12, Digital transmitter, universally programmable
6	T32, Digital transmitter, HART®, universally programmable
9	T53, Fieldbus transmitter, FOUNDATION Fieldbus, PROFIBUS®PA
B	T91.10, Analogue transmitter, fixed measuring range
Y	Without
8	Neck extension
FG	Nipple-Union-Nipple - Galvanized steel
EG	Nipple - Galvanized steel
UG	Nipple-Union (protection tube only) - Galvanized steel
FS	Nipple-Union-Nipple - Stainless steel
ES	Nipple - Stainless steel
US	Nipple-Union (protection tube only) - Stainless steel
BS	Nipple-Union-Oil Seal Bushing - Stainless steel
ZZ	Without

5	Connection head
1AF	1/4000 F (Aluminum) with Flame Path ¹
1SF	1/4000 S (Stainless steel) with Flame Path ¹
7AF	7/8000 W (Aluminum) with Flame Path ¹
1AW	1/4000 F (Aluminum) without Flame Path
1SW	1/4000 S (Stainless steel) without Flame Path
7AW	7/8000 W (Aluminum) without Flame Path
KAW	KN4-A (Aluminum)
KPW	KN4-P (Polypropylene)
ZZZ	Without

¹Flame path required for Explosion Proof assemblies not assembled to WIKA thermowell.
²As per ANSI MC96.1-1982.
³See Data Sheet CERT.31 for certificate options and details.

TC10-3 Industrial Thermocouple Assembly

Fixed (Direct Mount Into Process)

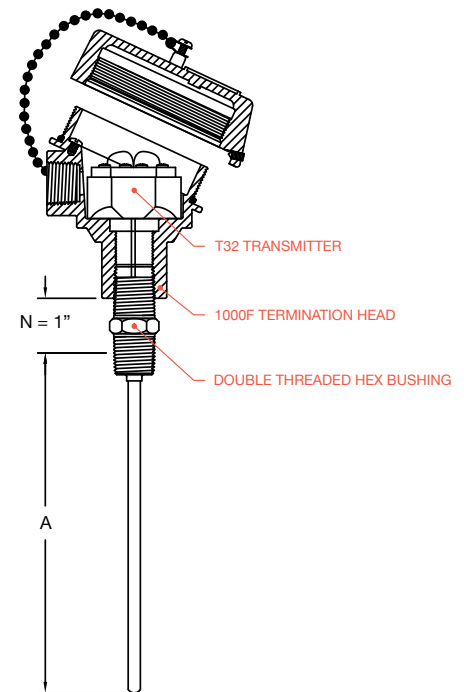
TC10-3 thermocouples are industrial assemblies supplied with or without a temperature transmitter. An extensive range of thermocouple calibrations, connection heads, insertion lengths and neck lengths can be individually selected for the appropriate application.

Thermocouples in this series are designed to be installed directly into the process. The welded fitting or optional compression fitting make this assembly ideal for use without a thermowell.

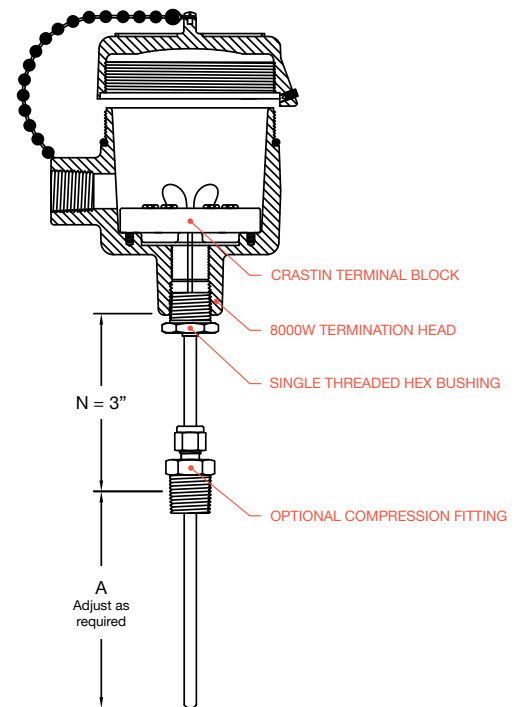
Replacement sensors can also be configured for this model.

Features:

- The sensor is designed to be mounted directly into process.
- The assembly has electrical approvals for explosion proof hazardous locations, ingress protection and general purpose areas.
- Electrical authorities that have registered these approvals include CSA, FM and ATEX.
- Optional compression fitting allows insertion depth to be adjusted during installation.



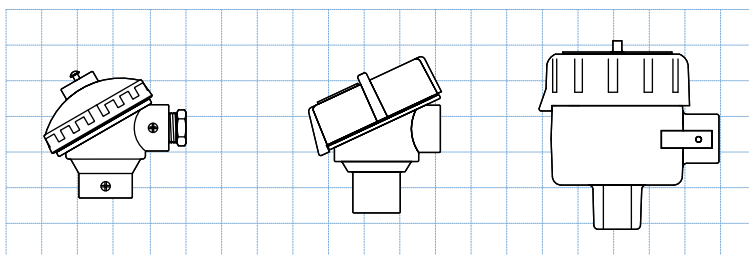
THERMOCOUPLE ASSEMBLY SAMPLE
TC10-3-0-I-C-1AW13-6-DS-010-B-1-1-P-00600-Z



THERMOCOUPLE ASSEMBLY SAMPLE
TC10-3-0-I-C-7AW13-1-SC-030-B-1-1-P-00600-Z

Connection Heads

Imperial Grid 1" x 1"



KN4-A
KN4-P

1/4000F
1/4000S

7/8000W

TC10-3-....

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Part Number	TC10-3-X-X-X-XXXXX-X-XX-XXX-X-X-X-XXXXX-X
1 Assembly description	
Code	
0	Industrial assembly configured
1	Industrial sensor configured (no termination head)
2 Unit of measure	
I	Imperial (inch)
M	Metric (mm)
3 Electrical approval	
C	CSA Ex-proof Class I Division 1
F	FM Ex-proof Class I Division 1
J	EEEx-d (ATEX) acc. to directive 94/9/EC
Z	Without
4 Connection head	
1AW	1/4000 F (Aluminum)
1SW	1/4000 S (Stainless steel)
7AW	7/8000 W (Aluminum)
KAW	KN4-A (Aluminum)
KPW	KN4-P (Polypropylene)
ZZZ	Without
5 Instrument x Conduit entry	
11	1/2 NPT x 1/2 NPT
13	1/2 NPT x 3/4 NPT
12	1/2 NPT x M20x1.5
31	3/4 NPT x 1/2 NPT (reducer)
33	3/4 NPT x 3/4 NPT
32	3/4 NPT x M20x1.5
ZZ	Without

6 Terminal block / Transmitter	
1	Crastin terminal block
2	Ceramic terminal block
3	T12, Digital transmitter, universally programmable
6	T32, Digital transmitter, HART®, universally programmable
9	T53, Fieldbus transmitter, FOUNDATION Fieldbus, PROFIBUS® PA
B	T91.10, Analogue transmitter, fixed measuring range
Y	Without
7 Neck extension	
DS	Fixed double threaded hex bushing (316SS)
SS	Fixed single threaded hex bushing (316SS)
SC	Fixed single threaded hex bushing with 1/2 NPT compression fitting (SS body and ferrule)
DU	Nipple-Union-Fixed double threaded hex bushing (316SS)
8 N-Dimension (N) - Neck Extension Length	
005	0.5 inch (13 mm) - Single threaded
010	1.0 inch (25 mm) - Double threaded
030	3.0 inch (76 mm) - Single threaded with compression fitting
050	5.0 inch (127 mm) - Nipple-Union-Fixed Double threaded hex bushing
9 Thermocouple sensor	
A	Type K (NiCr-NiAl) / 0...+1260 °C
B	Type K (NiCr-NiAl) / 0...+1260 °C Special Limits of Error ¹
C	Type J (Fe-CuNi) / 0...+760 °C
D	Type J (Fe-CuNi) / 0...+760 °C Special Limits of Error ¹
E	Type N (NiCr-Si-NSi) / 0...+1260 °C
F	Type N (NiCr-Si-NSi) / 0...+1260 °C Special Limits of Error ¹
G	Type E (NiCr-CuNi) / 0...+870 °C
H	Type E (NiCr-CuNi) / 0...+870 °C Special Limits of Error ¹
J	Type T (Cu-CuNi) / -200...+370 °C
K	Type T (Cu-CuNi) / -200...+370 °C Special Limits of Error ¹
10 Thermocouple junction	
1	Single Ungrounded
2	Single Grounded
3	Dual Ungrounded
4	Dual Grounded
11 Sensor diameter	
1	1/4 inch / 0.250 inch (6.35 mm)
2	1/8 inch / 0.125 inch (3.17 mm)
4	3/16 inch / 0.188 inch (4.75 mm)
5	3/8 inch / 0.375 inch (9.53 mm)
D	6.0 mm (0.235 inch)
12 Sheath material	
P	Stainless steel 316 / 316 L (1.4401 / 1.4435)
O	Stainless steel 310 (1.4841)
J	Inconel® 600 (2.4816)
I	Hastelloy® X (2.4665)
T	Stainless steel 446 (1.4762)
H	Hastelloy® C276 (2.4819)
13 A-Dimension (A) - Sensor Insertion Length	
****	Please specify (e.g. 84 mm = 00084) (e.g. 9.5 inch = 00950)
14 Certificates	
1	Yes ²
Z	Without

Notes:

¹As per ANSI MC96.1-1982.

²See Data Sheet CERT.31 for certificate options and details.

TC10-4 Industrial Thermocouple Assembly Spring Loaded (Neck Extension External)

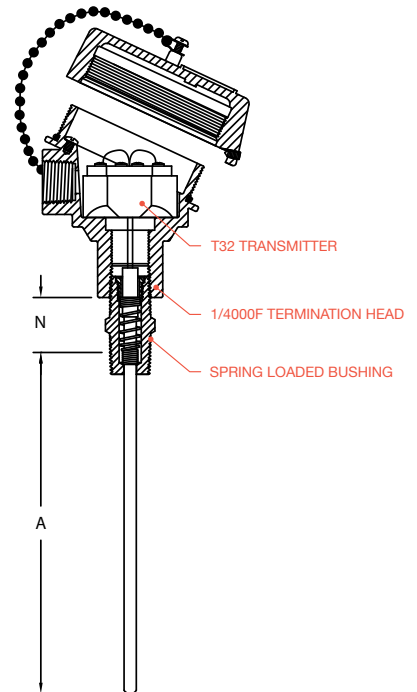
TC10-4 thermocouples are industrial assemblies supplied with or without a temperature transmitter. An extensive range of thermocouple calibrations, connection heads, insertion lengths and neck lengths can be individually selected for the appropriate application.

Spring loading is achieved utilizing a spring loaded bushing as or as part of the neck extension. The spring loaded bushing can be combined with a nipple and union for ease of installation. An oil seal bushing with o-ring is also available for direct mount into the process.

Replacement sensors can also be configured for this model.

Features:

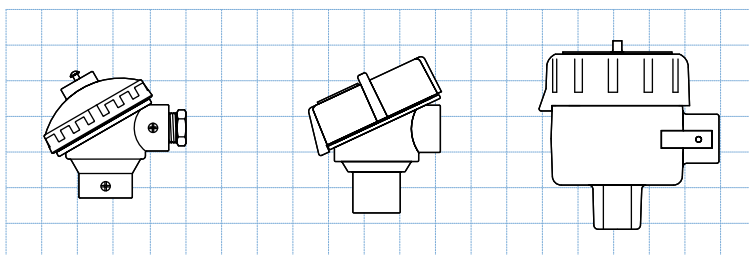
- The sensor is designed to be mounted into a thermowell or directly into the process (oil seal bushing).
- The assembly has electrical approvals for explosion proof hazardous locations, ingress protection and general purpose areas.
- Electrical authorities that have registered these approvals include CSA, FM and ATEX. The approvals must be with an attached WIKA thermowell.
- The thermocouple sensor is spring-loaded ensuring a positive contact to the required location.



THERMOCOUPLE ASSEMBLY SAMPLE
TC10-4-0-I-Z-1AW-13-6-SL-010-B-1-1-P-00600-Z

Connection Heads

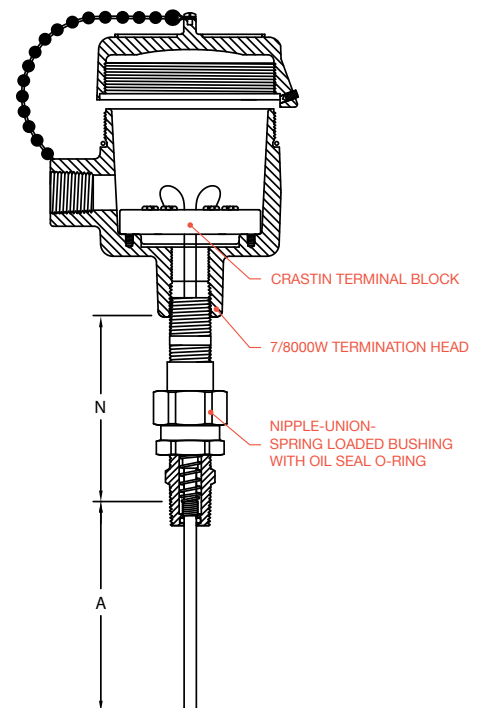
Imperial Grid 1" x 1"



KN4-A
KN4-P

1/4000F
1/4000S

7/8000W



THERMOCOUPLE ASSEMBLY SAMPLE
TC10-4-0-I-Z-7AW-13-1-OU-030-B-1-1-P-00600-Z

TC10-4-....

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Create your product part number by selecting the appropriate assembly items from each of the categories below.
Enter the item code into the applicable box to generate the part number.
Note: Some configurations are unavailable. Your Wika sales representative will notify you if you have made an incorrect selection.

Part Number	TC10-4-X-X-X-XXXXXX-X-XX-XXX-X-X-X-XXXXX-X													
1	Assembly description													
	Code													
	0	Industrial assembly configured												
	1	Industrial sensor configured (no termination head)												
2	Unit of measure													
	I	Imperial (inch)												
	M	Metric (mm)												
3	Electrical approval													
	C	CSA Ex-proof Class I Division 1 <i>WIKA Thermowell required</i>												
	F	FM Ex-proof Class I Division 1 <i>WIKA Thermowell required</i>												
	J	EEEx-d (ATEX) acc. to directive 94/9/EC <i>WIKA Thermowell required</i>												
	Z	Without												
4	Connection head													
	1AW	1/4000 F (Aluminum)												
	1SW	1/4000 S (Stainless steel)												
	7AW	7/8000 W (Aluminum)												
	KAW	KN4-A (Aluminum)												
	KPW	KN4-P (Polypropylene)												
	ZZZ	Without												
5	Instrument x Conduit entry													
	11	1/2 NPT x 1/2 NPT												
	13	1/2 NPT x 3/4 NPT												
	12	1/2 NPT x M20x1.5												
	31	3/4 NPT x 1/2 NPT (reducer)												
	33	3/4 NPT x 3/4 NPT												
	32	3/4 NPT x M20x1.5												
	ZZ	Without												

9		Thermocouple sensor	
A	Type K (NiCr-NiAl) / 0...+1260 °C		
B	Type K (NiCr-NiAl) / 0...+1260 °C Special Limits of Error ¹		
C	Type J (Fe-CuNi) / 0...+760 °C		
D	Type J (Fe-CuNi) / 0...+760 °C Special Limits of Error ¹		
E	Type N (NiCr-Si-NiSi) / 0...+1260 °C		
F	Type N (NiCr-Si-NiSi) / 0...+1260 °C Special Limits of Error ¹		
G	Type E (NiCr-CuNi) / 0...+870 °C		
H	Type E (NiCr-CuNi) / 0...+870 °C Special Limits of Error ¹		
J	Type T (Cu-CuNi) / -200...+370 °C		
K	Type T (Cu-CuNi) / -200...+370 °C Special Limits of Error ¹		

12	Sheath material	
P	Stainless steel 316 / 316 L (1.4401 / 1.4435)	
O	Stainless steel 310 (1.4841)	
J	Inconel® 600 (2.4816)	
I	Hastelloy® X (2.4665)	
T	Stainless steel 446 (1.4762)	
H	Hastelloy® C276 (2.4819)	
13	A-Dimension (A) - Sensor Insertion Length	
*****	Please specify (e.g. 84 mm = 00084) (e.g. 9.5 inch = 00950)	
14	Certificates	
1	Yes ²	
Z	Without	

Notes:

¹As per ANSI MC96.1-1982.

²See Data Sheet CERT.31 for certificate options and details.

TC10-9 Industrial Thermocouple Assembly

Ceramic Beaded Sensor

TC10-9 ceramic beaded insulator thermocouple assemblies are used in extremely high temperature industrial applications.

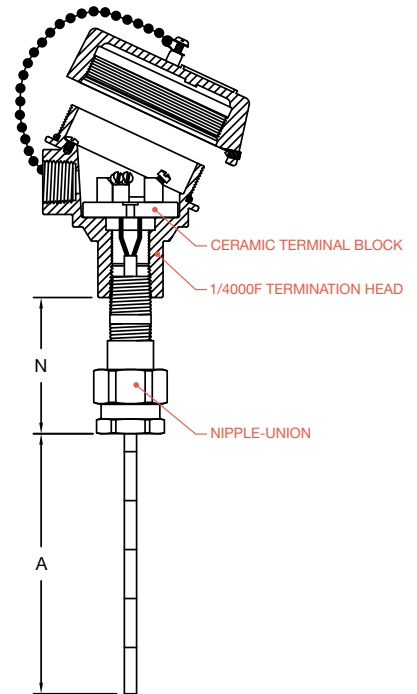
These assemblies are primarily used in conjunction with ceramic closed ended protection tubes. An extensive range of thermocouple calibrations, connection heads, wire gauges, ceramic insulator diameters and insertion lengths can be selected for this model.

The assembly provides a neck extension with a female threaded union for installing directly to a ceramic protection tube fitting.

Replacement thermocouple sensors can be configured for this model.

Features:

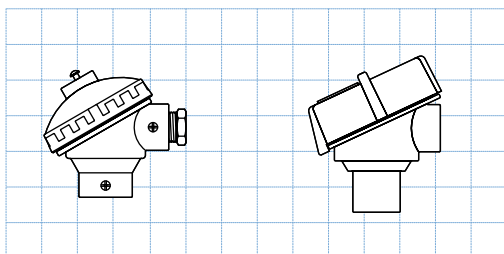
- The assembly has a general purpose approval.
- Wire sizes for single thermocouples range from 20 AWG with insulator diameter of 0.187" to 8 AWG with insulator diameter of 0.465"
- For dual thermocouples the range is 20 AWG with insulator diameter of 0.220" to 14AWG with insulator diameter of 0.312".
- A ceramic terminal block with metal screws is provided inside the head for direct termination of the ceramic beaded thermocouple.



THERMOCOUPLE ASSEMBLY SAMPLE
TC10-9-0-I-1AW-13-UG-030-A-5-04-00600-Z

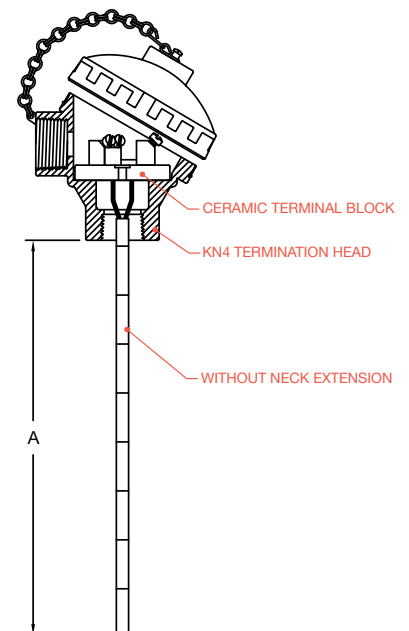
Connection Heads

Imperial Grid 1" x 1"



KN4-A
KN4-P

1/4000F
1/4000S



THERMOCOUPLE ASSEMBLY SAMPLE
TC10-9-0-I-KAW-13-ZZ-ZZZ-A-5-04-00600-Z

TC10-9-...

Create your product part number by selecting the appropriate assembly items from each of the categories below.
Enter the item code into the applicable box to generate the part number.
Note: Some configurations are unavailable. Your Wika sales representative will notify you if you have made an incorrect selection.

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1 Assembly description	
Part Number	TC10-9-X-X-XXXXX-XX-XXX-X-X- XX-XXXXX-X
Code	
0	Industrial assembly configured
1	Industrial sensor configured (no termination head)
2 Unit of measure	
I	Imperial (inch)
M	Metric (mm)
3 Connection head	
1AW	1/4000 F (Aluminum)
1SW	1/4000 S (Stainless steel)
KAW	KN4-A (Aluminum)
KPW	KN4-P (Polypropylene)
ZZZ	Without

4 Instrument x Conduit entry	
11	1/2 NPT x 1/2 NPT
13	1/2 NPT x 3/4 NPT
12	1/2 NPT x M20x1.5
31	3/4 NPT x 1/2 NPT (reducer)
33	3/4 NPT x 3/4 NPT
32	3/4 NPT x M20x1.5
ZZ	Without
5 Neck extension	
UG	Nipple-Union (protection tube only) - Galvanized steel
US	Nipple-Union (protection tube only) - Stainless steel
ZZ	Without

6 N-Dimension (N) - Neck Extension Length	
030	3.0 inch (76 mm)
040	4.0 inch (102 mm) - Nipple-Union Standard
060	6.0 inch (152 mm)
ZZZ	Without

7 Thermocouple sensor	
A	Type K (NiCr-NiAl) / 0...+1260 °C
C	Type J (Fe-CuNi) / 0...+760 °C
E	Type N (NiCrSi-NiSi) / 0...+1260 °C
G	Type E (NiCr-CuNi) / 0...+870 °C
8 Thermocouple junction	
5	Single Recessed
6	Single Exposed
7	Dual Recessed
8	Dual Exposed

9 Insulator Diameter x Wire Gauge	
01	0.465" (8 AWG - single only)
02	0.312" (14 AWG - single or dual)
03	0.250" (14 AWG - single or dual)
04	0.230" (14 AWG - single only)
05	0.220" (20 AWG - dual only) - Recessed not available
06	0.187" (20 AWG - single only)

10 A-Dimension (A) - Sensor Insertion Length	
****	Please specify (e.g. 84 mm = 00084) (e.g. 9.5 inch = 00950)
11 Certificates	
1	Yes ¹
Z	Without

Notes:

¹See Data Sheet CERT.31 for certificate options and details.

WIKAt worldwide

Europe

Austria

WIKAt Messgerätevertrieb
Ursula Wiegand GmbH & Co. KG
1230 Vienna
Tel. (+43) 1 86916-31
Fax: (+43) 1 86916-34
E-mail: info@wika.at
www.wika.at

Belarus

WIKAt Belarus
Ul. Zaharova 50B
Office 3H
220088 Minsk
Tel. (+375) 17-294 57 11
Fax: (+375) 17-294 57 11
E-mail: info@wika.by
www.wika.by

Benelux

WIKAt Benelux
6101 WX Echt
Tel. (+31) 475 535-500
Fax: (+31) 475 535-446
E-mail: info@wika.nl
www.wika.nl

Bulgaria

WIKAt Bulgaria EOOD
1330 Sofia, 2E Akad. Ivan Geshov Blvd.
Business Center Serdika, office 3/104
Tel. (+359) 2 82138-10
Fax: (+359) 2 82138-13
E-mail: info@wika.bg
www.wika.bg

Croatia

WIKAt Croatia d.o.o.
Hrastovicka 19
10250 Zagreb-Lucko
Tel. (+385) 1 6531034
Fax: (+385) 1 6531357
E-mail: info@wika.hr
www.wika.hr

Finland

WIKAt Finland Oy
00210 Helsinki
Tel. (+358) 9-682 49 20
Fax: (+358) 9-682 49 270
E-mail: info@wika.fi
www.wika.fi

France

WIKAt Instruments s.a.r.l.
95610 Eragny-sur-Oise
Tel. (+33) 1 343084-84
Fax: (+33) 1 343084-94
E-mail: info@wika.fr
www.wika.fr

Germany

WIKAt Alexander Wiegand
SE & Co. KG
63911 Klingenberg
Tel. (+49) 9372 132-0
Fax: (+49) 9372 132-406
E-mail: info@wika.de
www.wika.de

Italy

WIKAt Italia Srl & C. Sas
20020 Arese (Milano)
Tel. (+39) 02 9386-11
Fax: (+39) 02 9386-174
E-mail: info@wika.it
www.wika.it

Poland

WIKAt Polska spółka z ograniczoną
odpowiedzialnością sp. k.
ul. Legska 29/35
87-800 Wloclawek
Tel. (+48) 542 3011-00
Fax: (+48) 542 3011-01
E-mail: info@wikapolska.pl
www.wikapolska.pl

Romania

WIKAt Instruments Romania S.R.L.
Bucuresti, Sector 5
Calea Rahovei Nr. 266-268
Corp 61, Etaj 1
Tel. (+40) 21 4048327
Fax: (+40) 21 4563137
E-mail: m.anghel@wika.ro
www.wika.ro

Russia

ZAO WIKAt MERA
127015 Moscow
Tel. (+7) 495-648 01 80
Fax: (+7) 495-648 01 81
E-mail: info@wika.ru
www.wika.ru

Serbia

WIKAt Merna Tehnika d.o.o.
Sime Solaje 15
11060 Belgrade
Tel. (+381) 11 2763722
Fax: (+381) 11 753674
E-mail: info@wika.rs
www.wika.rs

Spain

Instrumentos WIKAt S.A.U.
C/ Josep Carner, 11-17
08205 Sabadell (Barcelona)
Tel. (+34) 933 938630
Fax: (+34) 933 938666
E-mail: info@wika.es
www.wika.es

Switzerland

MANOMETER AG
6285 Hitzkirch
Tel. (+41) 41 91972-72
Fax: (+41) 41 91972-73
E-mail: info@manometer.ch
www.manometer.ch

Turkey

WIKAt Instruments Istanbul
Basinc ve Sicaklik Olcme Cihazlari
Ith. Ihr. ve Tic. Ltd. Sti.
Bayraktar Bulvari No. 17
34775 Sefirali-Yukan Dudullu - Istanbul
Tel. (+90) 216 41590-66
Fax: (+90) 216 41590-97
E-mail: info@wika.com.tr
www.wika.com.tr

Ukraine

TOV WIKAt Prylad
M. Raskovoy Str. 11, A
PO 200
02660 Kyiv
Tel. (+38) 044 496-8380
Fax: (+38) 044 496-8380
E-mail: info@wika.ua
www.wika.ua

United Kingdom

WIKAt Instruments Ltd
Merstham, Redhill RH13LG
Tel. (+44) 1737 644-008
Fax: (+44) 1737 644-003
E-mail: info@wika.co.uk
www.wika.co.uk

North America

Canada

WIKAt Instruments Ltd.
Head Office
Edmonton, Alberta, T6N 1C8
Tel. (+1) 780 46370-35
Fax: (+1) 780 46200-17
E-mail: info@wika.ca
www.wika.ca

Mexico

Instrumentos WIKAt Mexico
S.A. de C.V.
06600 Mexico D.F.
Tel. (+52) 55 50205300
Fax: (+52) 55 50205300
E-mail: ventas@wika.com
www.wika.com.mx

USA

WIKAt Instrument, LP
Lawrenceville, GA 30043
Tel. (+1) 770 5138200
Fax: (+1) 770 3385118
E-mail: info@wika.com
www.wika.com

Gayesco-WIKAt USA LP
229 Beltway Green Blvd
Pasadena, TX 77503
Tel. (+1) 713-475 0022
Fax: (+1) 713-475 0011
E-mail: info@wikahouston.com
www.wika.com
www.gayesco.wika.com

Mensor Corporation
201 Barnes Drive
San Marcos, TX 78666
Tel. (+1) 512 3964200-15
Fax: (+1) 512 3961820
E-mail: sales@mensor.com
www.mensor.com

South America

Argentina

WIKAt Argentina S.A.
Buenos Aires
Tel. (+54) 11 47301800
Fax: (+54) 11 47610050
E-mail: info@wika.com.ar
www.wika.com.ar

Brazil

WIKAt do Brasil Ind. e Com. Ltda.
CEP 18560-000 Iperó - SP
Tel. (+55) 15 34599700
Fax: (+55) 15 32661650
E-mail: vendas@wika.de
www.wika.com.br

Chile

WIKAt Chile S.p.A.
Coronel Pereira 72
Oficina 101
Las Condes
Santiago de Chile
Tel. (+56) 2 23651719
E-mail: info@wika.cl
www.wika.cl

Colombia

Instrumentos WIKAt Colombia S.A.S.
Dorado Plaza,
Avenida Calle 26 No. 85D - 55
Local 126 y 126 A
Bogotá - Colombia
Tel. (+57) 1 744 3455
E-mail: info@wika.co

Asia

Azerbaijan

WIKAt Azerbaijan LLC
Caspian Business Center
9th floor 40 J. Jabbarli str.
AZ1065 Bak
Tel. (+994) 12 497 04-61
Fax: (+994) 12 497 04-62

China

WIKAt International Trading (Shanghai)
Co., Ltd.
A2615, NO.100, Zunyi Road
Changning District
Shanghai 200051
Tel. (+86) 21 538525-72
Fax: (+86) 21 538525-75
E-mail: info@wika.cn
www.wika.com.cn

WIKAt Instrumentation (Suzhou)
Co., Ltd.
81, Ta Yuan Road,
SND, Suzhou 215011
Tel. (+86) 512 68788000
Fax: (+86) 512 68780300
E-mail: info@wika.cn
www.wika.com.cn

India

WIKAt Instruments India Pvt. Ltd.
Village Kesnand, Wagholi
Pune - 412 207
Tel. (+91) 20 66293-200
Fax: (+91) 20 66293-325
E-mail: sales@wika.co.in
www.wika.co.in

Japan

WIKAt Japan K. K.
Tokyo 105-0023
Tel. (+81) 3 543966-73
Fax: (+81) 3 543966-74
E-mail: info@wika.co.jp
www.wika.co.jp

Kazakhstan

TOO WIKAt Kazakhstan
050050 Almaty
Tel. (+7) 727 2330848
Fax: (+7) 727 2789905
E-mail: info@wika.kz
www.wika.kz

Korea

WIKAt Korea Ltd.
#569-21 Gasan-dong
Seoul 153-771 Korea
Tel. (+82) 2 869 05 05
Fax: (+82) 2 869 05 25
E-mail: info@wika.co.kr
www.wika.co.kr

Malaysia

WIKAt Instrumentation (M) Sdn. Bhd.
47100 Puchong, Selangor
Tel. (+60) 3 80 63 10 80
Fax: (+60) 3 80 63 10 70
E-mail: info@wika.com.my
www.wika.com.my

Philippines

WIKAt Instruments Philippines, Inc.
Unit 102 Skyway Twin Towers
351 Capt. Henry Javier St.
Bgy. Oranbo, Pasig City
Tel. (+63) 2 234-1270
Fax: (+63) 2 695-9043
E-mail: danny.reodica@wika.com
www.wika.com.ph

Singapore

WIKAt Instrumentation Pte. Ltd.
569625 Singapore
Tel. (+65) 68 44 55 06
Fax: (+65) 68 44 55 07
E-mail: info@wika.com.sg
www.wika.com.sg

Taiwan

WIKAt Instrumentation Taiwan Ltd.
Pinjen, Taoyuan
Tel. (+886) 3 420 6052
Fax: (+886) 3 490 0080
E-mail: info@wika.com.tw
www.wika.com.tw

Thailand

WIKAt Instrumentation Corporation
(Thailand) Co., Ltd.
850/7 Ladkrabang Road, Ladkrabang
Bangkok 10520
Tel. (+66) 2 326 6876-80
Fax: (+66) 2 326 6874
E-mail: info@wika.co.th
www.wika.co.th

Africa / Middle East

Egypt

WIKAt Near East Ltd.
Villa No. 6, Mohamed Fahmy
Elmohdar St. - of Eltayaran St.
1st District - Nasr City - Cairo
Tel. (+20) 2 240 13130
Fax: (+20) 2 240 13113
E-mail: info@wika.com.eg
www.wika.com.eg

Namibia

WIKAt Instruments Namibia (Pty) Ltd.
P.O. Box 31263
Pionierspark
Windhoek
Tel. (+26) 4 6123 8811
Fax: (+26) 4 6123 3403
E-mail: info@wika.com.na
www.wika.com.na

South Africa

WIKAt Instruments (Pty.) Ltd.
Gardenvue,
Johannesburg 2047
Tel. (+27) 11 62100-00
Fax: (+27) 11 62100-59
E-mail: sales@wika.co.za
www.wika.co.za

United Arab Emirates

WIKAt Middle East FZE
Jebel Ali, Dubai
Tel. (+971) 4 8839-090
Fax: (+971) 4 8839-198
E-mail: wikame@emirates.net.ae
www.wika.ae

Australia

Australia

WIKAt Australia Pty. Ltd.
Rydalmere, NSW 2116
Tel. (+61) 2 88455222
Fax: (+61) 2 96844767
E-mail: sales@wika.com.au
www.wika.com.au

New Zealand

WIKAt Instruments Limited
Unit 7 / 49 Sainsbury Road
St Lukes - Auckland 1025
Tel. (+64) 9 8479020
Fax: (+64) 9 8465964
E-mail: info@wika.co.nz
www.wika.co.nz

WIKAt Alexander Wiegand SE & Co. KG

Alexander-Wiegand-Straße 30 · 63911 Klingenberg · Germany

Tel. +49 9372 132-0 · Fax +49 9372 132-406

E-Mail info@wika.de · www.wika.de



 Part of your business