Electrical
Temperature
Measurement

TC10 North American Industrial Thermocouple Assembly

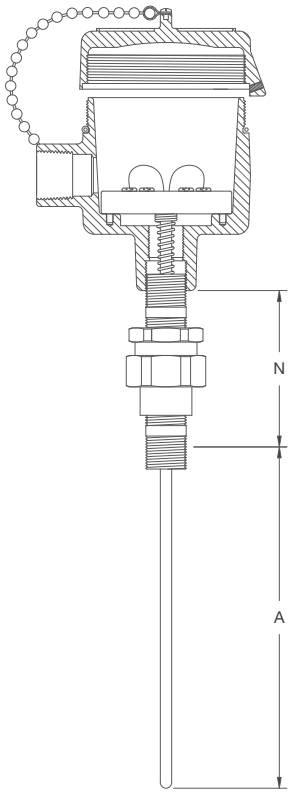
WIKA
Part of your business

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

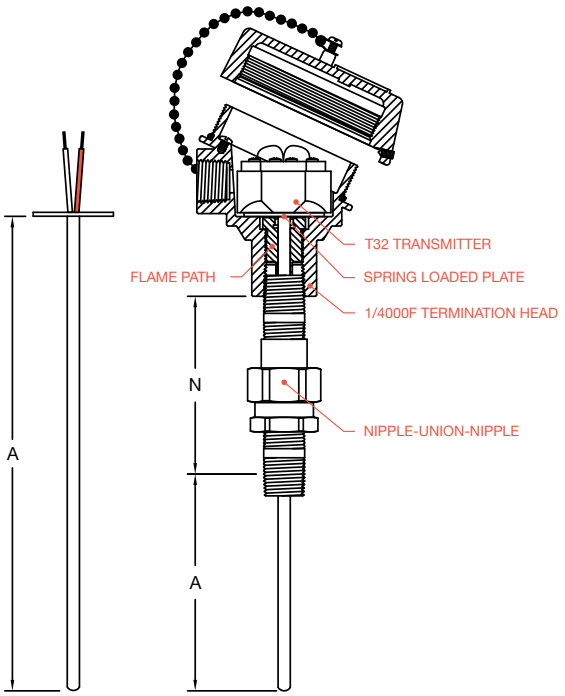
TC10-2 Industrial Thermocouple Assembly

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 acheived within the termination head utilizing a self-gripping spring or spring loaded DIN plate.

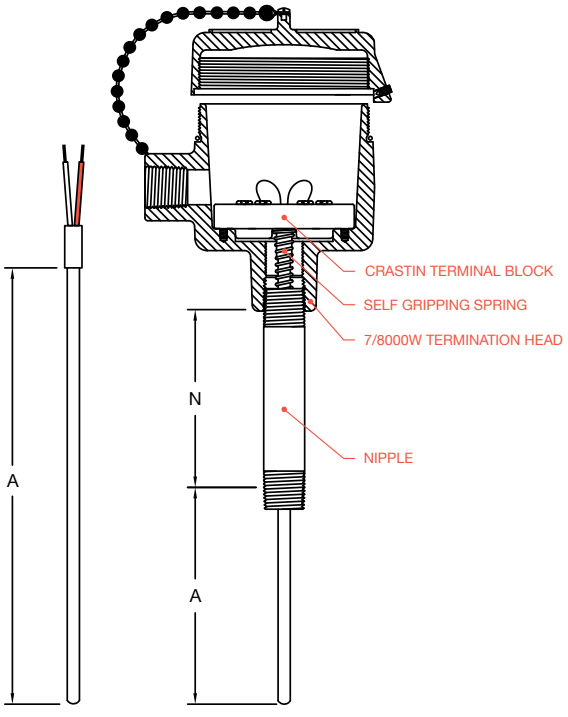
Replacement sensors can also be configured for this model.



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

Features:

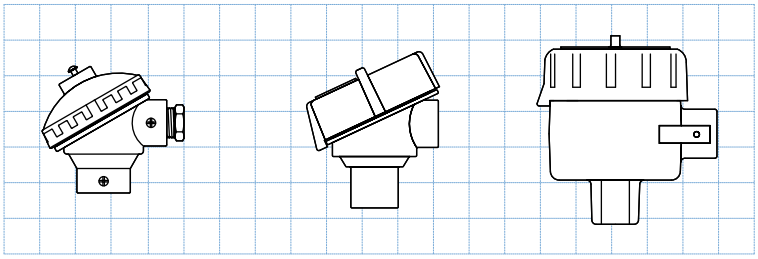
- The sensor is designed to be mounted into a thermowell.
- The assembly has electrical approvals for explosion proof hazardous locations, ingress protection and general purpose areas.
- Electrical authorities that have registered these approvals include CSA, FM and ATEX. The approvals can be with or 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.



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

Connection Heads

Imperial Grid 1" x 1"



KN4-A
KN4-P

1/4000F
1/4000S

7/8000W

TC10-2-...

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	TC10-2-X-X-X-X-XXXXX-X-XX-XXX-X-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 Spring design

S	Self gripping spring
D	Spring loaded plate (required for transmitter)

4 Electrical approval

C	CSA Ex-proof Class I Division 1
F	FM Ex-proof Class I Division 1
J	EEx-d (ATEX) acc. to directive 94/9/EC
Z	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

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	Crastin terminal block
2	Ceramic terminal block
3	T12, Digital transmitter, universally progammable
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

9 N-Dimension (N) - Neck Extension Length

***	N-Dimension in units (e.g. 6.0" = 060, 150 mm = 150) Up to 12.0" (300 mm) Use Increments of 1.0" (25 mm)
ZZZ	Without

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 (NiCrSi-NiSi) / 0...+1260 °C
F	Type N (NiCrSi-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)

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"

Notes:

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

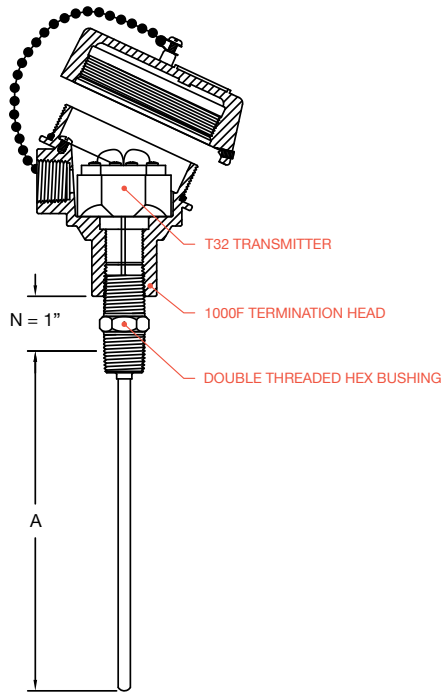
TC10-3 Industrial Thermocouple Assembly

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.

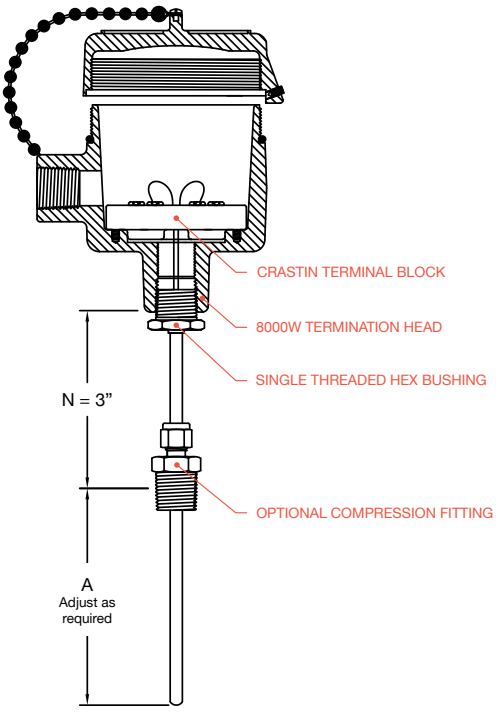
Replacement sensors can also be configured for this model.



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

Features:

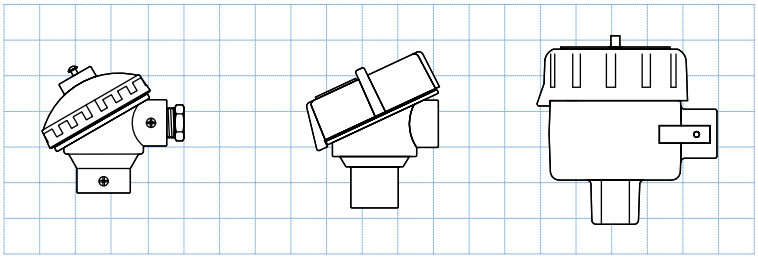
- The sensor is designed to be mounted directly into process.
- The assembly has electrical approvals for explosion proof hazardous locations, ingress protection and general purpose areas.
- Electrical authorities that have registered these approvals include CSA, FM and ATEX.
- Optional compression fitting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



THERMOCOUPLE ASSEMBLY SAMPLE
TC10-3-0-I-C-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-...

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.

1	2	3	4	5	6	7	8	9	10	11	12	13	14

Part Number	TC10-3-X-X-X-XXXXX-X-XX-XXX-X-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	EEx-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 progammable
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 (NiCrSi-NiSi) / 0...+1260 °C
F	Type N (NiCrSi-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]

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:

[1] As per ANSI MC96.1-1982.
[2] See Data Sheet CERT.31 for certificate options and details.

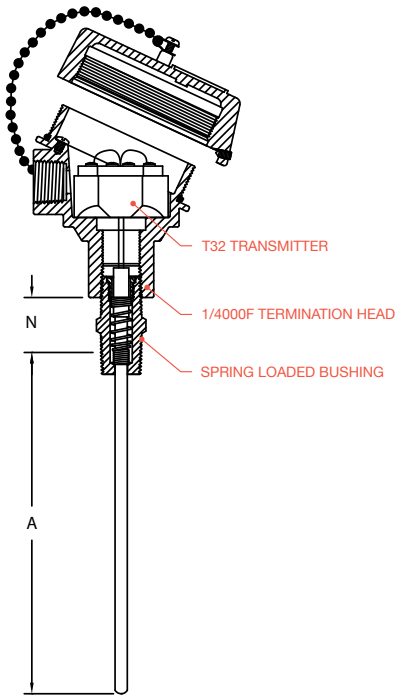
TC10-4 Industrial Thermocouple Assembly

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 acheived 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.

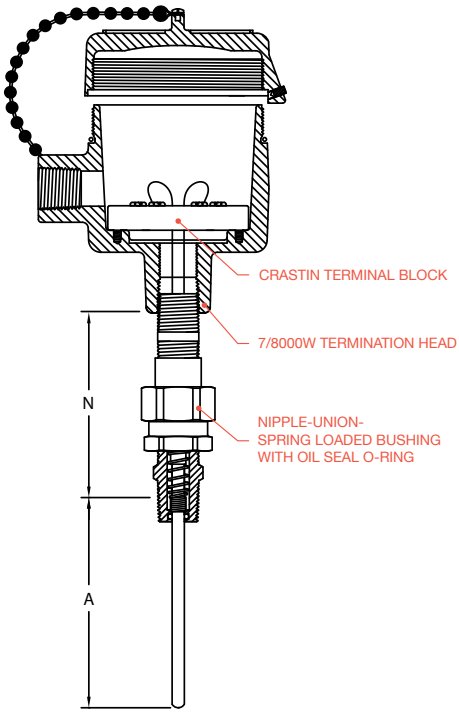
Replacement sensors can also be configured for this model.



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

Features:

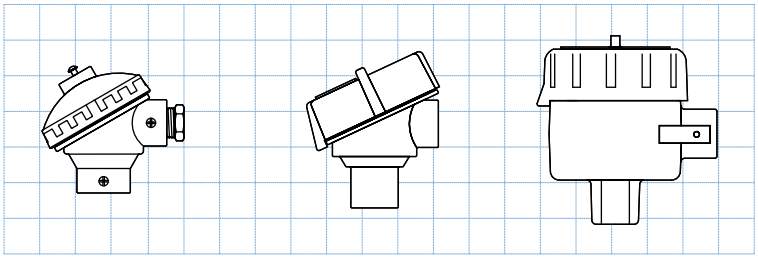
- The sensor is designed to be mounted into a thermowell or directly into the process (oil seal bushing).
- The assembly has electrical approvals for explosion proof hazardous locations, ingress protection and general purpose areas.
- Electrical authorities that have registered these approvals include 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-7AW-13-1-OU-030-B-1-1-P-00600-Z

Connection Heads

Imperial Grid 1" x 1"



KN4-A
KN4-P

1/4000F
1/4000S

7/8000W

TC10-4-...

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-XXXXX-X-XX-XXX-X-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 *WIKA Thermowell required*
F	FM Ex-proof Class I Division 1 *WIKA Thermowell required*
J	EEx-d (ATEX) acc. to directive 94/9/EC *WIKA Thermowell required*
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 progammable
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

SL	Spring loaded bushing without oil seal (SS)
OS	Spring loaded bushing with oil seal (SS)
SU	Spring loaded bushing-Union-Nipple (SS)
OU	Nipple-Union-Spring loaded bushing with oil seal (SS)

8 N-Dimension (N) - Neck Extension Length

010	1.0 inch (25 mm) - *Standard for Bushings only (no union)*
030	3.0 inch (76 mm)
040	4.0 inch (102 mm)
050	5.0 Inch (127 mm) - *Standard for Union-Nipple*
060	6.0 inch (152 mm)
080	8.0 Inch (204 mm)

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 (NiCrSi-NiSi) / 0...+1260 °C
F	Type N (NiCrSi-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]

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)
8	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:

[1] As per ANSI MC96.1-1982.
[2] See Data Sheet CERT.31 for certificate options and details.

TC10-9 Industrial Thermocouple Assembly

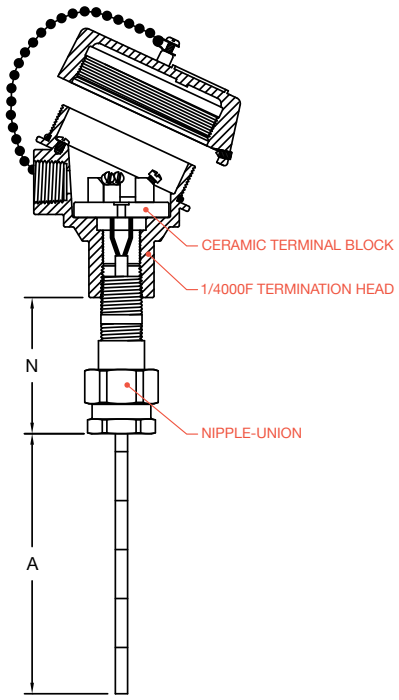
Ceramic Beaded Sensor

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.

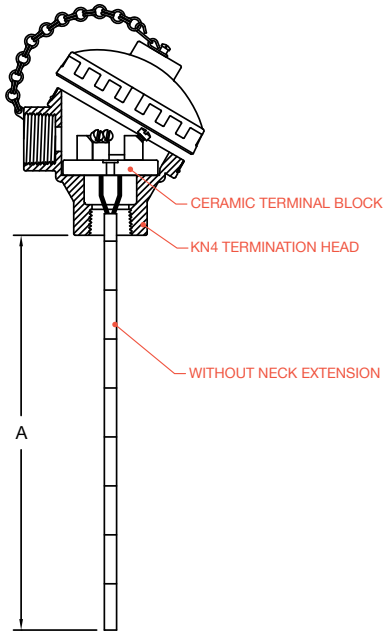
Replacement thermocouple sensors can be configured for this model.



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

Features:

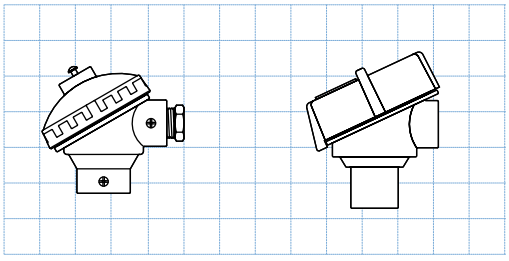
- The assembly has a general purpose approval.
- Wire sizes for single thermocouples range from 20 AWG with insulator diameter of 0.187” to 8 AWG with insulator diameter of 0.465”
- For dual thermocouples the range is 20 AWG. with insulator diameter of 0.220” to 14AWG with insulator diameter of 0.312”.
- 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-KAW-13-ZZ-ZZZ-A-5-04-00600-Z

Connection Heads

Imperial Grid 1" x 1"



KN4-A
KN4-P

1/4000F
1/4000S

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.

Part Number	TC10-9-X-X-XXXXX-XX-XXX-X-X-XX-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	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:

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

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