

TC15-2 Remote Mount Industrial Thermocouple Assembly

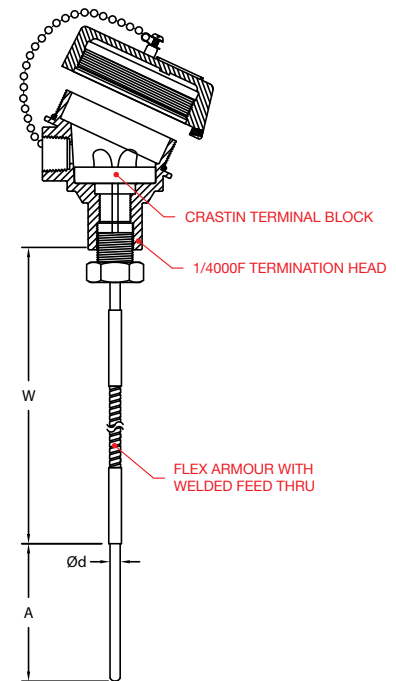
TC15 series thermocouples are remote mounted industrial assemblies supplied with or without a temperature transmitter. They are designed for applications where direct mounting is inaccessible, where there is excessive radiated or conducted heat, or applications where high vibrations exist.

An extensive range of elements, connection heads, insertion 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.

Features:

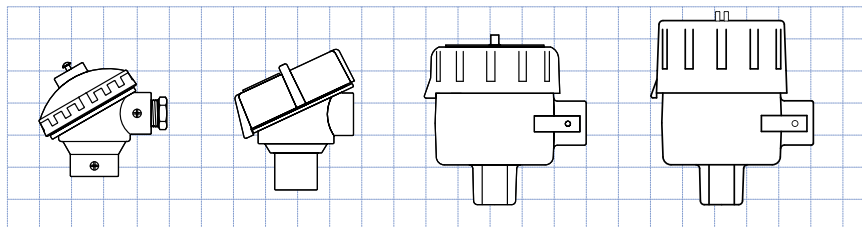
- The sensor can be mounted into a thermowell or directly into a process with the use of a spring loaded or compression process fitting.
- The assembly has electrical approvals for explosion proof hazardous locations, ingress protection and general purpose areas.
- Electrical authorities that have registered these approvals include CSA and FM.
- The thermocouple sensor can be spring-loaded ensuring a positive contact to the required location.
- For applications that are exposed to outside weather conditions or where moisture is present, the flexible armour extension can be provided with a moisture-proof jacket of PTFE (Teflon) or PVC.



THERMOCOUPLE ASSEMBLY SAMPLE
TC15-2-0IL-1AW131FW-B003601ZZZZZ-A-1-1-P00600-Z

Connection Heads

Imperial Grid 1" x 1"

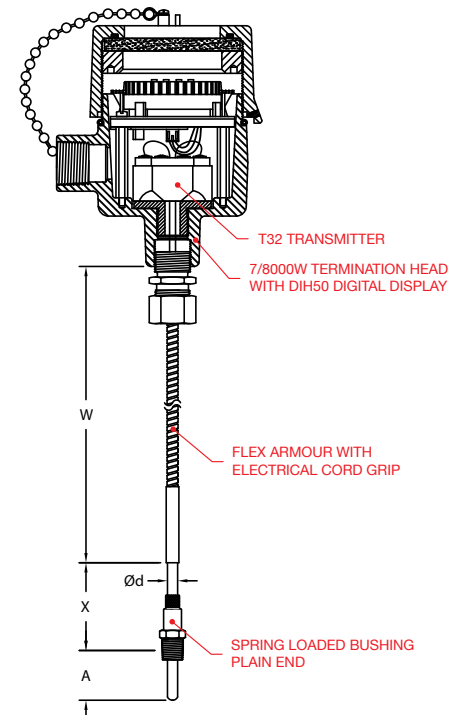


KN4-A
KN4-P

1/4000F
1/4000S

7/8000W

7/8000W
WITH DIGITAL DISPLAY



THERMOCOUPLE ASSEMBLY SAMPLE
TC15-2-0IL-DAW136FC-B003601JK0300-A-1-1-P00600-Z

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

[illegible]

Part Number	TC15-2-XXX-XXXXXXXX-XXXXXXXXXXXX-XXXXXX-X
Assembly description	
Code	
0	Industrial assembly configured
1	Industrial sensor configured (no termination head)
Unit of measure	
I	Imperial (inch)
M	Metric (mm)
Electrical approval	
L	CSA Ex-proof Class I Division 2
M	FM Ex-proof Class I Division 2
Z	Without
Connection head	
1AW	1/4000 F (Aluminum)
1SW	1/4000 S (Stainless steel)
7AW	7/8000 W (Aluminum)
DAW	7/8000 W (Aluminum) with DIH50 Digital Display (Transmitter required)
KAW	KN4-A (Aluminum)
KPW	KN4-P (Polypropylene)
ZZZ	Without
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
	4	T24: Analogue transmitter for Pt100, PC-configurable
	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	
	FW	Flex armour with welded feed thru
	FC	Flex armour with electrical cord grip
8	Lead wire insulation	
	B	Armoured Teflon®, application range -50...+250 °C
	A	Armoured Fiberglass, application range -50...+400 °C
	G	Teflon® Armour over Teflon®, application range -50...+250 °C
	D	PVC® Armour over Teflon®, application range -50...+250 °C
9	W-Dimension (W) - Lead Wire Length	
	****	Please specify (e.g. 84 mm = 00084) (e.g. 9.5 inch = 00950)
10	Termination	
	1	Stripped leads
	2	Spade lugs (no termination head)

11	Process fitting style
J	Spring loaded bushing (plain end bushing - 303SS)
M	Spring loaded bushing (double threaded bushing - 303SS)
K	Spring loaded bushing with oil seal (double threaded bushing - 303SS)
B	Compression fitting with SS ferrule
C	Compression fitting with Teflon ferrule
Z	without
12	Process fitting thread size
K	1/2 NPT (male)
J	3/4 NPT (male)
W	1/8 NPT (male) - Compression fitting only
N	1/4 NPT (male) - Compression fitting only
Z	Without
13	X-Dimension (X) - Process location start
***	Please specify (e.g. 84 mm = 0084) (e.g. 9.5 inch = 0950)
14	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

15	Thermocouple junction	1 Single Ungrounded
		2 Single Grounded
		3 Dual Ungrounded
		4 Dual Grounded
16	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 1/16 inch / 0.063 inch (1.59 mm)
		8 3/8 inch / 0.375 inch (9.53 mm)
		D 6.0 mm (0.236 Inch)
17	Sheath material	P Stainless steel 316 / 316 L (1.4401 / 1.4435)
		J Inconel® 600 (2.4816)
18	A-Dimension (A) - Sensor Insertion Length	***** Please specify (e.g. 84 mm = 00084) (e.g. 9.5 inch = 00950)
19	Certificates	1 Yes!
		Z Without

²²See Data Sheet CERT.31 for certificate options and details.