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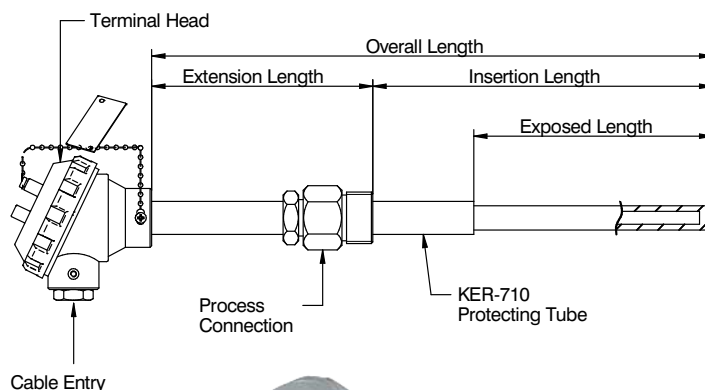
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PROTECTION TUBE THERMOCOUPLE ASSEMBLY T302

STANDARD SPECIFICATIONS

Element	:	Type R (Pt-13%Rh/Pt)
Element type	:	Element with ceramic insulators
Accuracy	:	Standard to ISA & ANSI MC96.1
No. of sensors	:	Simplex
Hot junction	:	Ungrounded
Wire diameter	:	24 AWG (0.511 mm)
Terminal head type	:	Screwed Type ,Weatherproof, IP-65
Terminal head material	:	Die-cast Aluminum
Cable entry	:	3/4" ET (F), 1 No.
Head extension type	:	Head with female threading
Support tube material	:	AISI 446 SS
Protecting tube material	:	KER - 710, Recrystallised Alumina
Protecting tube size (OD X ID)	:	15 x 10 mm
Process connection type	:	Adjustable connection
Process connection	:	3/4" NPT (M)
Process connection material	:	ASTM A 105 / Carbon Steel
Overall length / Exposed length	:	500 mm / 300 mm
Extension Length	:	100 mm

DIMENSIONAL DRAWING



FEATURES

- KER710 Material
- Ceramic Insulator
- Exchangeable insert
- Transmitter mountable
- Adjustable / Fixed connection
- Single / Double protecting tube

APPLICATION

- Reactors
- Glass Industries
- Oil & gas application
- Sulfur recovery plants
- Steel & Power Industries
- Furnaces, Kilns & Ovens



ORDERING CODES

1. ELEMENT

K	Type K (NiCr-Ni)
N	Type N (NiCrSi-NiSi)
R	Type R (Pt-13%Rh/Pt)
S	Type S (Pt-10%Rh/Pt)
B	Type B (Pt/30%Rh-Pt/6%Rh)

2. ELEMENT TYPE

X6	Mineral insulated
X7	Element with ceramic insulator

3. ACCURACY

P	Standard
Q	Special

4. NO. OF SENSORS

V	Simplex
W	Duplex
X	Triplex

5. HOT JUNCTION

G	Grounded
U	Ungrounded

6. SHEATH MATERIAL

MQ	Inconel 600
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7. SHEATH DIAMETER (For X6)

M30	3.0 mm
M50	5.0 mm
M60	6.0 mm
M80	8.0 mm
M10	10.0 mm
M12	12.0 mm

OR

7. SHEATH DIAMETER (For X7)

W24	24 AWG (0.511 mm)
W25	25 AWG (0.455 mm)
W26	26 AWG (0.404 mm)
W27	27 AWG (0.361 mm)

8. HEAD ENCLSURE

BZ	WP, IP 65, threaded cover
BX	WP, IP 67, threaded cover
BS	Flame proof, IP 67, Gr IIA, IIB
BT	Explosion proof, IP 67, Gr IIC
BV	WP, IP 65, Hinged type
BY	WP, IP 65, cover fitted with 2 screws
BU	Ex-Proof to CSA,FM,ATEX [Ex-d]

9. ENCLOSURE MATERIAL

ML	Die-cast aluminum
MC	AISI 304 SS
MF	AISI 316 SS

10. CABLE ENTRY

C0	3/4" ET (F), 1 No.
C1	1/2" NPT (F), 1 No.
C2	M20 x 1.5mm (F), 1 No.
C3	3/4" NPT (F), 1 No.
C5	3/4" ET (F), 2 Nos.
C6	1/2" NPT (F), 2 Nos.
C8	M20 x 1.5mm (F), 2 Nos.
C9	3/4" NPT (F), 2 Nos.

11. SUPPORT TUBE MATERIAL

MF	AISI 316 SS
MG	AISI 316L SS
ME	AISI 310 SS
MQ	Inconel 600
M6	AISI 446 SS

12. INNER PROTECTION TUBE

P6	KER - 610, Pythagoras
P7	KER - 710, Recrystallised Alumina

13. INNER PROTECTION TUBE SIZE

T06	Ø6 X 1.0 mm thk
T08	Ø8 X 1.5 mm thk
T10	Ø10 X 2.0 mm thk
T12	Ø12 X 2.0 mm thk

14. OUTER PROTECTION TUBE

P6	KER - 610, Pythagoras
P7	KER - 710, Recrystallised Alumina
P3	Kanthal AF
P4	Kanthal APM
MQ	Inconel 600

15. OUTER PROTECTION TUBE SIZE

T06	Ø6 X 1.0 mm thk
T08	Ø8 X 1.5 mm thk
T10	Ø10 X 2.0 mm thk
T12	Ø12 X 2.0 mm thk
T50	Ø15 X 2.5 mm thk
T20	Ø20 X 2.5 mm thk
T24	Ø24 X 3.0 mm thk

16. PROCESS CONNECTION TYPE

KW	Adjustable connection
KX	Fixed connection

K

X7

P

V

U

MQ

M60

W24

BZ

ML

C0

M6

XX

XXX

P7

T50

KW

ORDERING CODES

17. PROCESS CONNECTION

14N	1/2" NPT (M)
14B	1/2" BSP (M)
15N	3/4" NPT (M)
15B	3/4" BSP (M)
16N	1" NPT (M)
18N	2" NPT (M)
16B	1" BSP (M)
16B	2" BSP (M)

18. PROCESS CONNECTION MATERIAL

MB	ASTM A 105 / Carbon Steel
MF	AISI 316 SS

19. OVERALL / EXPOSED LENGTH (OL)

XXXX/XXXX 50 mm up to 2,000 mm

OR

19. INSERTION / EXPOSED LENGTH (IL)

XXXX/XXXX 50 mm up to 2,000 mm

15N

MB

XXXX

XXXX

20. EXTENSION LENGTH (XL)

XXX 50 mm up to 250 mm

XXX

21. OTHER OPTIONS

XX

TB	Calibration Certificate
XF	Tag plate, AISI 304 SS
KD	SC, cable gland, Ni-brass WP
KE	DC, cable gland, Ni-brass WP
KJ	SC, cable gland, Ni-brass FP
KK	DC, cable gland, Ni-brass FP
KF	SC, cable gland, AISI 304 SS WP
KG	DC, cable gland, AISI 304 SS WP
KL	SC, cable gland, AISI 304 SS FP
KM	DC, cable gland, AISI 304 SS FP
KH	SC, cable gland, AISI 316 SS WP
KI	DC, cable gland, AISI 316 SS WP
KN	SC, cable gland, AISI 316 SS FP
KO	DC, cable gland, AISI 316 SS FP
KB	Plug fitting for CE, AISI 304 SS
KC	Plug fitting for CE, AISI 316 SS
KU	Plug fitting for CE, Aluminum
KS	SS base plate for transmitter
KT	Head mount transmitter

Ordering Example : T302-K-X7-P-V-U-MQ-M60-W24-BZ-ML-C0-M6-P7-T50-KW-15N-MB

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