

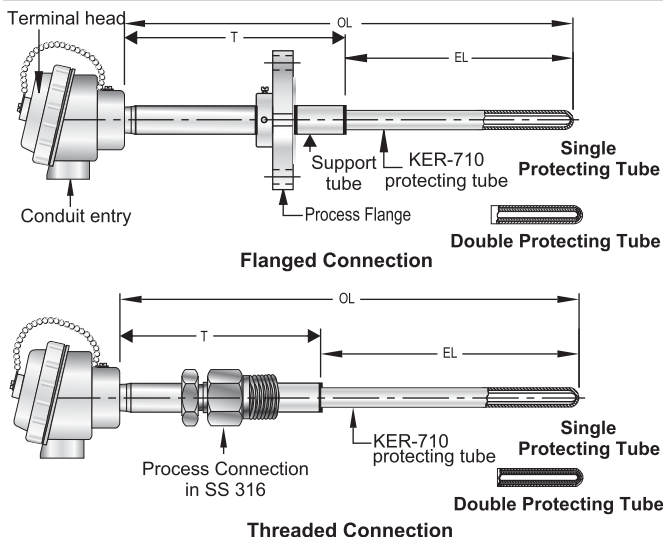


**Specification**

**Standard Version**

Thermocouple type	: Beaded element
No of elements	: Simplex
Elements	: Platinum 13% Rhodium - Platinum (R type) Non MI beaded
Accuracy	: Class 2 as per IEC - 584.2 / ANSI MC - 96.1
Hot junction type	: Ungrounded junction
Wire diameter for beaded element	: 26 SWG (0.45 mm)
Terminal head type	: Screwed type, weatherproof, IP-67 in die cast aluminum
No of conduit entry	: One
Conduit entry size	: 3/4" ET(F)
Head extension type	: Adjustable flange
Support tube material	: SS 446
Protecting tube material	: KER 710
Protecting tube size	: 15 x 10 mm
Flange material	: ASTM A105 (CS)
Flange type/size	: Adjustable Flange (1½" 150#RF)
Support tube length "T"	: 150 mm
Exposed length 'EL'	: EL=500 mm
Overall length "OL"	: 650 mm
Tag plate	: SS tag plate

**Dimensional Details**



**Notes :** • Drawings are not to scale. • All Dimensions are in mm.

**Special Features**

- Assembly with KER 710 or KER 610 tube for high temperature application..
- Thermocouple element is available in different wire sizes..
- Available in various connections & sheath diameters
- Enclosures (Head)
- Weatherproof IP - 67
- Flameproof Gr. IIA, IIB
- Explosion proof IIA, IIB, II C
- Transmitter output 4 - 20mA (Optional)
- Reference standard : IEC - 584.2 / ANSI MC - 96.1

**Application**

- Temperature measurement of furnaces, combustion chambers, recuperators and similar applications.

**How To Order**

**Example**

<b>Basic model</b>			
<b>Optional Extras</b>			T02
(Select if you required options other than standard product details)			
<b>No of Element</b>			
1 Simplex (Std.)	2 Duplex		X
<b>Element Type</b>			
R Platinum 13% Rhodium - Platinum (Standard)			
S Platinum 10% Rhodium - Platinum			X
B Platinum 6% Rhodium - Platinum 30% Rhodium			
K Chromel-Alumel			
<b>Accuracy</b>			
1 Class 1 as per IEC - 584.2 / ANSI MC - 96.1			X
2 Class 2 as per IEC - 584.2 / ANSI MC - 96.1 (Std.)			
<b>Hot Junction Type</b>			
UG Un-Grounded Junction			X
<b>Wire Diameter</b>			
<b>Standard Wire Gauge (Beaded Element)</b>			
24 24 SWG (0.55 mm)	29 29 SWG (0.35 mm)		XX
25 25 SWG (0.50 mm)			
26 26 SWG (0.45 mm)			
<b>Terminal Head Type</b>			
F Screwed type, Flameproof, IP-67, Gr. IIA IIB in Die Cast Aluminum			
E Screwed type, Explosion proof, IP-67, Gr. IIC in Die Cast Aluminum			
H Hinged type, Weatherproof, IP-67 in Die Cast Aluminum			X
B Weatherproof Head, IP-67 in Die-cast Aluminum			
A Screwed type, weatherproof, IP-65 in Die Cast Aluminum			
C Screwed Type, Weatherproof, IP-68 in Die Cast Aluminum			
3 Terminal head in SS 304 - WP, IP-67			
4 Terminal head in SS 316 - WP, IP-67			
<b>No of Conduit Entry / Entries</b>			
1 One (Std.)	2 Two		X
<b>Conduit Entry Size</b>			
A 3/4" ET (F) (Std.)	B 1/2" NPT (F)		X
C 3/4" NPT(F) other, please specify			

How To Order	Example
<b>Head Extension Type</b>	
<b>A</b> Adjustable threaded connection	
<b>F</b> Fixed flanged connection	X
<b>AF</b> Adjustable Flange	
<b>Support Tube Material</b>	
<b>1</b> SS 316 <b>3</b> SS 310 <b>6</b> Inconel 600	X
<b>Outer Protecting Tube Material</b>	
<b>1</b> KER - 710 <b>S</b> Silicon Carbide	
<b>6</b> Pythagoras (KER - 610) <b>T</b> Tungsten Carbide	X
Others, Please specify.	
<b>Outer Protecting Tube for Single OR Double Protection</b>	
<b>10</b> 10 x 6 mm	
<b>12</b> 12 x 8 mm	
<b>15</b> 15 x 10 mm	XX
<b>20</b> 20 x 15 mm	
<b>24</b> 24 x 18 mm others, please specify.	
<b>Inner Protecting Tube Material for Double Protection Only</b>	
<b>1</b> KER - 710 <b>X</b> Not Applicable	
<b>6</b> Pythagoras (KER - 610)	X
<b>Inner Protecting Tube Dia for Double Protection Only</b>	
<b>06</b> 6 x 4 mm (Select Outer tube size 12 x 8 mm)	
<b>08</b> 8 x 5 mm (Select Outer tube size 15 x 10 mm)	
<b>10</b> 10 x 6 mm (Select Outer tube size 20 x 15 mm)	
<b>12</b> 12 x 8 mm (Select Outer tube size 20 x 15 mm)	XX
<b>15</b> 15 x 11 mm (Select Outer tube size 24 x 18 mm)	
<b>XX</b> Not applicable	
<b>Flange / Threaded Connection Material</b>	
<b>2</b> A182 F304	
<b>3</b> A182 F316	X
Consult factory for other material.	
<b>Adjustable / Threaded Connection Type / Size</b>	
<b>6BM</b> 1" BSP (M)	
<b>7BM</b> 1 1/2" BSP (M)	
<b>8BM</b> 2" BSP (M)	
<b>6NM</b> 1" NPT (M)	XXX
<b>7NM</b> 1 1/2" NPT (M)	
<b>8NM</b> 2" NPT (M)	
(As per ANSI B 16.5)*	
<b>B15</b> 3/4" 150 # <b>B21</b> 1" 150 # <b>B39</b> 2" 150 #	
<b>B16</b> 3/4" 300 # <b>B22</b> 1" 300 # <b>B40</b> 2" 300 #	
<b>B17</b> 3/4" 600 # <b>B23</b> 1" 600 # <b>B41</b> 2" 600 #	
	<b>B33</b> 1 1/2" 150 # <b>B51</b> 3" 150 #
	<b>B34</b> 1 1/2" 300 # <b>B52</b> 3" 300 #
	<b>B35</b> 1 1/2" 600 # <b>B53</b> 3" 600 #
(* Please mention the flange face and flange finish) Please consult factory for other flanges.	

How To Order	Example
<b>Overall / Exposed Length</b>	
EL - Specify in mm.	500 mm / 650 mm
OL - Specify in mm.	
<b>Support Tube Length</b>	
T - Specify in mm.	150 mm
<b>NUN Length (If Applicable)</b>	
N - Specify in mm.	
<b>Other Options</b>	
<b>13</b> Head mounted Temperature transmitter(4-20 mA)	
<b>14</b> SS Base plate suitable for temperature transmitter	
<b>21</b> Plug for conduit entry in carbon steel	
<b>22</b> Plug for conduit entry in SS 304	
<b>23</b> Plug for conduit entry in SS 316	
<b>32</b> S. C. cable gland in Nickel plated Brass - WP	
<b>33</b> D. C. cable gland in Nickel plated Brass - WP	XX
<b>34</b> S. C. cable gland in SS 304 - WP	
<b>35</b> D. C. cable gland in SS 304 - WP	
<b>36</b> S. C. cable gland in SS 316 - WP	
<b>37</b> D. C. cable gland in SS 316 - WP	
<b>39</b> D. C. cable gland in Nickel plated Brass - FLP	
<b>41</b> D. C. cable gland in SS 304 - FLP	
<b>43</b> D. C. cable gland in SS 316 - FLP	
<b>44</b> Plug for conduit entry in AL	
<b>45</b> D. C. cable gland in Nickel plated brass-Ex proof	
<b>46</b> D. C. cable gland in SS304--Ex proof	
<b>47</b> D. C. cable gland in SS316--Ex proof	
<b>48</b> FLP / Ex proof plug in SS 304	
<b>49</b> FLP / Ex proof plug in SS 316	
<b>50</b> FLP / Ex proof plug in Nickel plated Brass	
<b>EC</b> Head with nipple extension 50 mm in CS	
<b>E4</b> Head with nipple extension 50 mm in SS 304	
<b>E6</b> Head with nipple extension 50 mm in SS 316	
<b>UC</b> Head with nipple union extension 100mm in CS	
<b>U4</b> Head with nipple union extension 100mm in SS 304	
<b>U6</b> Head with nipple union extension 100mm in SS 316	
<b>NC</b> Head with nipple union nipple extension 100mm in CS	
<b>N4</b> Head with nipple union nipple extension 100mm in SS 304	
<b>N6</b> Head with nipple union nipple extension 100mm in SS 316	
<b>PW</b> Calibration certificate	
<b>Note :</b>	
1. When selecting option "PW", please also specify temp. Points at which calibration is to be carried out .	
2. Explanations of Abbreviations used:	
SC = Single Compression    SS = Stainless Steel	
DC = Double Compression    FLP = Flameproof	
WP = Weatherproof	
<b>Ordering Example :</b>	
<b>T02 . X . X . X . X . XX . X . X . X . X . X . XX . X . XX . X . XXX . 500mm / 650mm . 150mm . 100mm . XX</b>	

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing .  
Modifications may take place and materials specified may be replaced by others without prior notice.