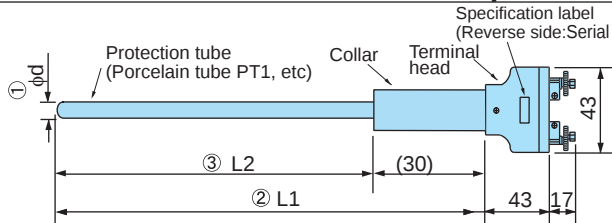
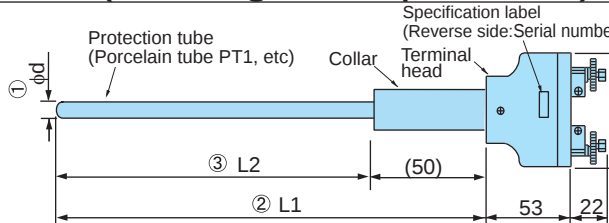


Noble Metal Thermocouples : T-30/T-35 (For High Temperature)

No lead wire T - 30 - ① - ② - ③ - □ - □ - □ ① ② ③ ⑦ ⑧ ⑨ With lead wire T - 30 - ① - ② - ③ - L - □□□ - □ - □ - □ - □ ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ① Diameter of protection tube ④ Lead wire length ⑦ Thermocouple type ② Length of protection tube (L1) ⑤ Lead protection ⑧ Sensing junction ③ Length of protection tube (L2) ⑥ Lead wire termination ⑨ Mounting bracket Example :T-30-10-200-170-R-NG-N (No lead wire) :T-30-10-200-170-2000-EXA-Y-R-G-N (With lead wire)		No lead wire T - 35 - ① - ② - ③ - □ - □ - □ ① ② ③ ⑦ ⑧ ⑨ With lead wire T - 35 - ① - ② - ③ - L - □□□ - □ - □ - □ - □ ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ① Diameter of protection tube ④ Lead wire length ⑦ Thermocouple type ② Length of protection tube (L1) ⑤ Lead protection ⑧ Sensing junction ③ Length of protection tube (L2) ⑥ Lead wire termination ⑨ Mounting bracket Example :T-35-10-200-150-R-NG-N (No lead wire) :T-35-10-200-150-2000-EXA-Y-R-G-N (With lead wire)																			
①	Diameter of protection tube	φ6.0, φ8.0, φ10.0		φ6.0, φ8.0, φ10.0, φ13.0, φ15.0, φ17.0																	
②	Length of protection tube (L1)	Specify length by "mm" (130mm to 1,030mm) • Please contact distributors regarding other length.		Specify length by "mm" (150mm to 1,050mm) • Please contact distributors regarding other length.																	
③	Length of protection tube (L2)	Specify length by "mm" (100mm to 1,000mm) • Please contact distributors regarding other length.		Specify length by "mm" (100mm to 1,000mm) • Please contact distributors regarding other length.																	
④	Lead wire length	Specify length by "mm" (100mm or more)																			
⑤	Lead protection	<table><tr><th>Code</th><th>Details</th><th>Operating temperature</th></tr><tr><td>EXA</td><td>Fiberglass with stainless steel</td><td>0 to 150°C</td></tr><tr><td>EXB</td><td>Fiberglass</td><td>0 to 150°C</td></tr><tr><td>EXD</td><td>PVC (polyvinyl chloride)</td><td>-20 to +90°C</td></tr></table>				Code	Details	Operating temperature	EXA	Fiberglass with stainless steel	0 to 150°C	EXB	Fiberglass	0 to 150°C	EXD	PVC (polyvinyl chloride)	-20 to +90°C				
Code	Details	Operating temperature																			
EXA	Fiberglass with stainless steel	0 to 150°C																			
EXB	Fiberglass	0 to 150°C																			
EXD	PVC (polyvinyl chloride)	-20 to +90°C																			
⑥	Lead wire termination	<table><tr><th>Code</th><th>Details</th><th>Code</th><th>Details</th></tr><tr><td>Y</td><td>Spade lugs for JIS standard "M3" size screw</td><td>TE*1</td><td>Thermocouple connector (CSP01+CLP-A+CSP02)</td></tr><tr><td>R</td><td>Ring lugs for JIS standard "M4" size screw</td><td></td><td>Only for Type R</td></tr><tr><td>M</td><td>Metal connector (SCK-1602-P)</td><td>N</td><td>No terminal lugs *terminal soldered •See Page7</td></tr></table> *1 : Other thermocouple connector : See Page 10				Code	Details	Code	Details	Y	Spade lugs for JIS standard "M3" size screw	TE*1	Thermocouple connector (CSP01+CLP-A+CSP02)	R	Ring lugs for JIS standard "M4" size screw		Only for Type R	M	Metal connector (SCK-1602-P)	N	No terminal lugs *terminal soldered •See Page7
Code	Details	Code	Details																		
Y	Spade lugs for JIS standard "M3" size screw	TE*1	Thermocouple connector (CSP01+CLP-A+CSP02)																		
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M	Metal connector (SCK-1602-P)	N	No terminal lugs *terminal soldered •See Page7																		
⑦	Thermocouple type	<table><tr><th>Code</th><th>Details</th><th>Code</th><th>Details</th></tr><tr><td>R</td><td>Type R (Platinum - Platinum Rhodium13%)</td><td>B</td><td>Type B(Platinum - Platinum Rhodium6%)</td></tr><tr><td>S</td><td>Type S (Platinum - Platinum Rhodium10%)</td><td></td><td></td></tr></table>				Code	Details	Code	Details	R	Type R (Platinum - Platinum Rhodium13%)	B	Type B(Platinum - Platinum Rhodium6%)	S	Type S (Platinum - Platinum Rhodium10%)						
Code	Details	Code	Details																		
R	Type R (Platinum - Platinum Rhodium13%)	B	Type B(Platinum - Platinum Rhodium6%)																		
S	Type S (Platinum - Platinum Rhodium10%)																				
⑧	Measuring junction	<table><tr><th>Code</th><th>Details</th></tr><tr><td>NG</td><td>Ungrounded</td></tr></table>				Code	Details	NG	Ungrounded												
Code	Details																				
NG	Ungrounded																				
⑨	Mounting bracket	<table><tr><th>Code</th><th>Details</th></tr><tr><td>C</td><td>Fixed flange</td></tr><tr><td>N</td><td>No bracket</td></tr></table> Specify size of flange when code is "C". • Please contact distributors regarding other mounting bracket.				Code	Details	C	Fixed flange	N	No bracket										
Code	Details																				
C	Fixed flange																				
N	No bracket																				
Specifications		Class : class 2 * Class 1 is available. (Thermocouple type : R,S) (Please specify when you order) Element : Single element * Double element is available. (Only for T-35) (Please specify when you order) Maximum temperature for use <table><tr><th>Thermocouple type</th><th>Operating temperature for regular use</th><th>Maximum temperature</th></tr><tr><td>R</td><td>1400°C</td><td>1600°C</td></tr><tr><td>S</td><td>1400°C</td><td>1600°C</td></tr><tr><td>B</td><td>1500°C</td><td>1700°C</td></tr></table> *The lists above are operating temperature limits for the element wire. For the protection tube, please refer to page.58 about reference data of protection tube.				Thermocouple type	Operating temperature for regular use	Maximum temperature	R	1400°C	1600°C	S	1400°C	1600°C	B	1500°C	1700°C				
Thermocouple type	Operating temperature for regular use	Maximum temperature																			
R	1400°C	1600°C																			
S	1400°C	1600°C																			
B	1500°C	1700°C																			
Reference																					

Noble Metal Thermocouples : T-80/T-85 (For High Temperature)

 Specification label (Reverse side: Serial number label) Protection tube (Porcelain tube PT1, etc) Collar Terminal head No lead wire T - 80 - ϕd - L1 - L2 - □ - □ - □ ① ② ③ ⑦ ⑧ ⑨ With lead wire T - 80 - ϕd - L1 - L2 - L - □□□ - □ - □ - □ - □ ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ① Diameter of protection tube ④ Lead wire length ⑦ Thermocouple type ② Length of protection tube (L1) ⑤ Lead protection ⑧ Sensing junction ③ Length of protection tube (L2) ⑥ Lead wire termination ⑨ Mounting bracket Example :T-80-10-200-170-R-NG-N (No lead wire) :T-80-10-200-170-2000-EXA-Y-R-G-N (With lead wire)		 Specification label (Reverse side: Serial number label) Protection tube (Porcelain tube PT1, etc) Collar Terminal head No lead wire T - 85 - ϕd - L1 - L2 - □ - □ - □ ① ② ③ ⑦ ⑧ ⑨ With lead wire T - 85 - ϕd - L1 - L2 - L - □□□ - □ - □ - □ - □ ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ① Diameter of protection tube ④ Lead wire length ⑦ Thermocouple type ② Length of protection tube (L1) ⑤ Lead protection ⑧ Sensing junction ③ Length of protection tube (L2) ⑥ Lead wire termination ⑨ Mounting bracket Example :T-85-10-200-150-R-NG-N (No lead wire) :T-85-10-200-150-2000-EXA-Y-R-G-N (With lead wire)																	
①	Diameter of protection tube	$\phi 6.0, \phi 8.0, \phi 10.0$																	
②	Length of protection tube (L1)	Specify length by "mm" (130mm to 1,030mm) • Please contact distributors regarding other length.																	
③	Length of protection tube (L2)	Specify length by "mm" (100mm to 1,000mm) • Please contact distributors regarding other length.																	
④	Lead wire length	Specify length by "mm" (100mm or more)																	
⑤	Lead protection	<table><tr><th>Code</th><th>Details</th><th>Operating temperature</th></tr><tr><td>EXA</td><td>Fiberglass with stainless steel</td><td>0 to 150°C</td></tr><tr><td>EXB</td><td>Fiberglass</td><td>0 to 150°C</td></tr><tr><td>EXD</td><td>PVC (polyvinyl chloride)</td><td>-20 to +90°C</td></tr></table>		Code	Details	Operating temperature	EXA	Fiberglass with stainless steel	0 to 150°C	EXB	Fiberglass	0 to 150°C	EXD	PVC (polyvinyl chloride)	-20 to +90°C				
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EXA	Fiberglass with stainless steel	0 to 150°C																	
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Code	Details	Code	Details																
Y	Spade lugs for JIS standard "M3" size screw	TE*1	Thermocouple connector (CSP01+CLP-A+CSP02)																
R	Ring lugs for JIS standard "M4" size screw	N	No terminal lugs *terminal soldered																
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