Connection Head Type • RTD or Thermocouple Element



TJDZ04UWA shown

The Trerice Connection Head is available with both Type J and Type K Thermocouples, as well as RTD sensors. The weatherproofed head provides a conduit connection and is available in cast aluminum (screw cover), polypropylene (flip cover) and stainless steel (screw cover). The stem is either welded directly to the 1/2 NPT threaded connection, or is spring loaded to provide maximum sensitivity. The spring loaded stem must always be installed in a thermowell.

- Extension wire and transmitter accessories are also available. Please consult the Temperature Sensor Accessories Section for details.
- For applications where the process media may be corrosive or contained under pressure, the use of a thermowell is required to prevent damage to the sensor and facilitate its removal from the process. To prevent leakage of the process media, spring loaded sensors must always be installed in a thermowell. (Refer to pages 155-161)

TDD 100Ω RTD 1000Ω RTD 1000Ω RTD Hot Junction: T/C: Ungrounded RTD: Platinum, 3- Stem 316 stainless stee 1/4" diameter Insulation Ceramic Head Cast aluminum, por stainless steel Process Connection 1/2 NPT welded of spring loaded Conduit 3/4 NPT female	odels	Sensor Type		
TDD 100Ω RTD 1000Ω RTD 1000Ω RTD Hot Junction: T/C: Ungrounded RTD: Platinum, 3- Stem 316 stainless stee 1/4" diameter Insulation Ceramic Head Cast aluminum, por stainless steel Process Connection 1/2 NPT welded of spring loaded	D	Type J T/C		
TMD 1000Ω RTD Hot Junction: T/C: Ungrounded RTD: Platinum, 3- Stem 316 stainless stee 1/4" diameter Insulation Ceramic Head Cast aluminum, por stainless steel Process Connection 1/2 NPT welded of spring loaded Conduit 3/4 NPT female	(D	Type K T/C		
Hot Junction: T/C: Ungrounded RTD: Platinum, 3- Stem 316 stainless stee 1/4" diameter Insulation Ceramic Head Cast aluminum, por stainless steel Process Connection 1/2 NPT welded of spring loaded Conduit 3/4 NPT female	D	100 Ω RTD		
RTD: Platinum, 3- Stem 316 stainless stee 1/4" diameter Insulation Ceramic Head Cast aluminum, p or stainless steel Process Connection 1/2 NPT welded of spring loaded Conduit 3/4 NPT female	1D	1000 Ω RTD		
RTD: Platinum, 3- Stem 316 stainless stee 1/4" diameter Insulation Ceramic Head Cast aluminum, por stainless steel Process Connection 1/2 NPT welded of spring loaded Conduit 3/4 NPT female	ot Junction:	T/C: Ungrounded		
1/4" diameter Insulation Ceramic Head Cast aluminum, por stainless steel Process Connection 1/2 NPT welded composition spring loaded Conduit 3/4 NPT female		RTD: Platinum, 3-wire		
Insulation Ceramic Head Cast aluminum, por stainless steel Process Connection 1/2 NPT welded of spring loaded Conduit 3/4 NPT female	em	316 stainless steel		
Head Cast aluminum, por stainless steel Process Connection 1/2 NPT welded of spring loaded Conduit 3/4 NPT female		1/4" diameter		
or stainless steel Process 1/2 NPT welded of spring loaded Conduit 3/4 NPT female	sulation	Ceramic		
Connection spring loaded Conduit 3/4 NPT female	ad	Cast aluminum, polypropylene or stainless steel		
Conduit 3/4 NPT female	ocess	1/2 NPT welded or		
, , , , , , , , , , , , , , , , , , , ,	nnection	spring loaded		
		3/4 NPT female		
Approximate Shipping Weight	proximate S	hipping Weight		
1.1 lbs [0.50 kg]		1.1 lbs [0.50 ka]		

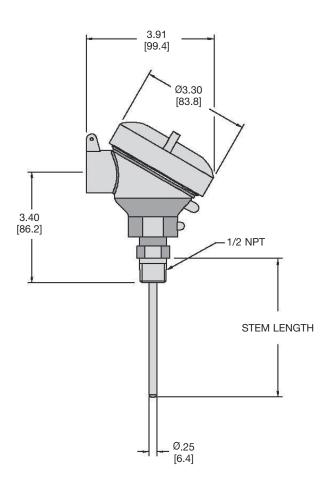
HOW TO ORE	DER	Sample Order Number:	TJD Z 04 U W A		
Model	Stem Style	Stem Length	Hot Junction	Connection	Head Material
TJD Type J T/C TKD Type K T/C TDD 100Ω RTD TMD1000Ω RTD	Z 316SS, 1/4 O.D.	02 21/2" Stem 04 4" Stem 06 6" Stem 09 9" Stem 12 12" Stem	U Ungrounded (T/C) D 3 Wire (RTD)	S Spring Loaded, 1/2 NPT W Welded, 1/2 NPT	A AluminumP PolypropyleneS Stainless Steel

Other stem lengths available: Specify in inches (24" maximum).



All dimensions are nominal. Dimensions in [] are in millimeters.

Connection Head Type



Sensor Specifications

Thermocouple

Туре	Color Code	Positive Lead	Negative Lead	Temperature Range
J	Black	Iron* (Fe) [white]	Constantan (Cu-Ni) [red]	32° to 1382°F (0° to 750°C)
K	Yellow	Nickel-Chromium (Ni-Cr) [yellow]	Nickel-Aluminum* (Ni-Al) [red]	32° to 2282°F (0° to 1250°C)

^{*}magnetic lead

RTD

Туре	Material	Resistance	Temperature Coefficient	Temperature Range
D	Platinum (Pt)	100Ω	α = 0.00385 $\Omega/\Omega/^{\circ}$ C	-50° to 700°F (-45° to 370°C)
М	Platinum (Pt)	1000Ω	α = 0.00385 $\Omega/\Omega/^{\circ}$ C	-50° to 700°F (-45° to 370°C)



Integral Leadwire • RTD or Thermocouple Element



TJDZ06UR120 shown

Trerice Integral Leadwire Sensors are available with an RTD, or a Type J or K Thermocouple. The stem transition includes a spring relief to prevent damage to the leadwire. A Teflon covered sensor and leadwire is offered for use with open tanks or corrosive process media (the Teflon covered sensor does not include a spring relief).

For applications where the process media may be corrosive or contained under pressure, the use of a thermowell is required to prevent damage to the sensor and facilitate its removal from the process. (Refer to pages 155-161)

Models	Sensor Type
TJD	Type J T/C
TKD	Type K T/C
TDD	100Ω RTD
TMD	1000Ω RTD
Hot Junction:	T/C: Ungrounded
	RTD: Platinum, 3-wire
Stem	316 stainless steel
	1/4" diameter
Insulation	Ceramic
Termination	Integral leadwire with spring
	relief or Teflon sheath
	(450°F / 230°C maximum)
Leadwire	T/C: Fiberglass
Jacketing	RTD: Teflon
Approximate	Shipping Weight
	0.5 lbs [0.23 kg]

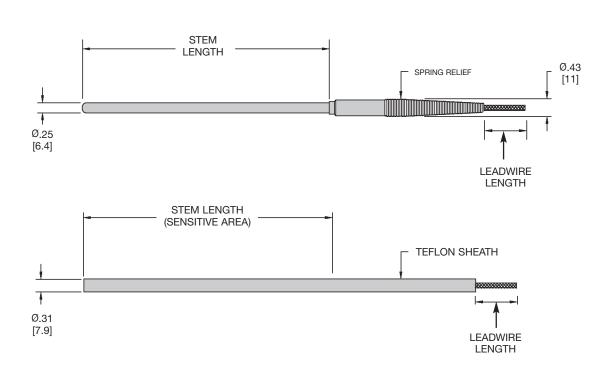
NOW TO ORDER Sample Order Number: TDD 2 06 D T 022					
Model	Stem Style	Stem Length	Hot Junction	Connection Style	Leadwire Length
TJD Type J T/C TKD Type K T/C TDD 100Ω RTD TMD1000Ω RTD	Z 316SS, 1/4 O.D.	02 21/2" Stem 04 4" Stem 06 6" Stem 09 9" Stem 12 12" Stem	U Ungrounded (T/C) D 3 Wire (RTD)	R Integral Leadwire with Relief SpringT Integral Leadwire with Teflon Sheath	Specify Length in inches (i.e., 10 feet=120)

Other stem lengths available: Specify in inches (24" maximum).



All dimensions are nominal. Dimensions in [] are in millimeters.

Integral Leadwire



Sensor Specifications

Thermocouple

Туре	Color Code	Positive Lead	Negative Lead	Temperature Range
J	Black	Iron* (Fe) [white]	Constantan (Cu-Ni) [red]	32° to 1382°F (0° to 750°C)
K	Yellow	Nickel-Chromium (Ni-Cr) [yellow]	Nickel-Aluminum* (Ni-Al) [red]	32° to 2282°F (0° to 1250°C)

^{*} Magnetic lead

RTD

Туре	Material	Resistance	Temperature Coefficient	Temperature Range
D	Platinum (Pt)	100Ω	α = 0.00385 $\Omega/\Omega/^{\circ}$ C	-50° to 700°F (-45° to 370°C)
М	Platinum (Pt)	1000Ω	α = 0.00385 $\Omega/\Omega/^{\circ}$ C	-50° to 700°F (-45° to 370°C)

Note: Teflon covered sensors are limited to 450°F (232°C).



Plug with Mating Jack • Thermocouple Element



Type J or K Thermocouple

Color-coded Plug

Polarized Mating Jack

The Trerice Plug with Mating Jack **Sensor** is available with a Type J or

Type K Thermocouple. This sensor is of a simple design, and provides for easy installation or replacement. The plug is color coded by thermocouple type, and the mating jack is polarized to ensure proper installation.

Extension wire is also available. Please consult the Temperature Sensor Accessories Section for details. **Specifications** Models **Sensor Type** TJD Type J T/C **TKD** Type K T/C Hot Junction Ungrounded

Stem 316 stainless steel 1/4" diameter

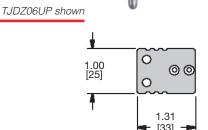
Insulation Ceramic

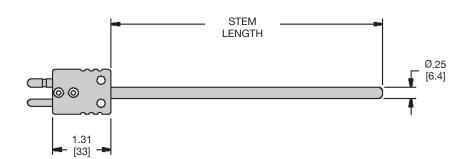
Connection Standard size plug with mating jack

Plug Quick Disconnect, color coded

Approximate Shipping Weight

0.3 lbs [0.14 kg]





Sensor Specifications

Thermocouple

	Thormodouple					
Type	Color Code	Positive Lead	Negative Lead	Temperature Range		
J	Black	Iron* (Fe) [white]	Constantan (Cu-Ni) [red]	32° to 1382°F (0° to 750°C)		
K	Yellow	Nickel-Chromium (Ni-Cr) [yellow]	Nickel-Aluminum* (Ni-Al) [red]	32° to 2282°F (0° to 1250°C)		

*magnetic lead

NOTE: Plug is limited to 400° F (205°C)

HOW TO ORDER

HOW TO ORDER Sample Order Number: TKD Z 06 U P				
Model	Stem Style	Stem (Length)	Hot Junction	Connection Style
TJD Type J T/C TKD Type K T/C	Z 316SS, 1/4 O.D.	02 21/2" Stem 04 4" Stem 06 6" Stem 09 9" Stem 12 12" Stem	U Ungrounded	P Plug with Mating Jack

Other stem lengths: Specify in inches (24" maximum).

