### **Electronic Temperature Sensor** Connection Head Type • RTD or Thermocouple Element



HOW TO OR	DER	Sample Order Number: TJD Z 04 U W			
Model	Stem Style	Stem Length	Hot Junction	Connection	Head Material
<b>TJD</b> Type J T/C <b>TKD</b> Type K T/C <b>TDD</b> 100Ω RTD <b>TMD</b> 1000Ω RTD	<b>Z</b> 316SS, <sup>1</sup> /4 O.D.	02         21/2" Stem           04         4" Stem           06         6" Stem           09         9" Stem           12         12" Stem	<ul><li>U Ungrounded (T/C)</li><li>D 3 Wire (RTD)</li></ul>	<ul> <li>S Spring Loaded, 1/2 NPT</li> <li>W Welded, 1/2 NPT</li> </ul>	<ul><li>A Aluminum</li><li>P Polypropylene</li><li>S Stainless Steel</li></ul>

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)

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

maximum sensitivity. The spring loaded stem

must always be installed in a thermowell.

www.mmcontrol.com/Trerice.php

800-876-0036 847-356-0566

# **Electronic Temperature Sensor**

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

### **Connection Head Type**

3.40 (80.2) 

#### **Sensor Specifications**

•

•

Thermo	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)				
К	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	$\alpha$ = 0.00385 $\Omega/\Omega^{\circ}$ C	-50° to 700°F (-45° to 370°C)
М	Platinum (Pt)	1000Ω	$\alpha = 0.00385 \ \Omega/\Omega/^{\circ}C$	-50° to 700°F (-45° to 370°C)

.

•

**STRERICE** 139

# **Electronic Temperature Sensor**

### Integral Leadwire • RTD or Thermocouple Element

	Thermocouple or RTD
	Self-Contained Design
	Plain or Teflon Covered Stem

#### Specifications

Models	Sensor Type			
TJD	Type J T/C			
TKD	Type KT/C			
TDD	100Ω RTD			
TMD	1000Ω RTD			
Hot Junction:	T/C: Ungrounded			
	RTD: Platinum, 3-wire			
Stem	316 stainless steel			
	<sup>1</sup> /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]

Sample Order Number: TDD Z 06 D T 024

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)

#### HOW TO ORDER

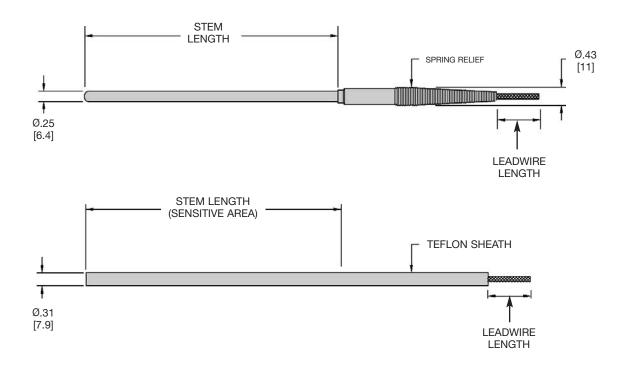
Model	Stem Style	Stem Length	Hot Junction	<b>Connection Style</b>	Leadwire Length		
<b>TJD</b> Type J T/C <b>TKD</b> Type K T/C <b>TDD</b> 100Ω RTD <b>TMD</b> 1000Ω RTD	<b>Z</b> 316SS, 1/4 O.D.	<ul> <li>02 21/2" Stem</li> <li>04 4" Stem</li> <li>06 6" Stem</li> <li>09 9" Stem</li> <li>12 12" Stem</li> </ul>	<ul><li>U Ungrounded (T/C)</li><li>D 3 Wire (RTD)</li></ul>	<ul><li>R Integral Leadwire with Relief Spring</li><li>T Integral Leadwire with Teflon Sheath</li></ul>	Specify Length in inches (i.e., 10 feet=120)		

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



## Electronic Temperature Sensor Integral Leadwire

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



#### **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)			
К	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	$\alpha = 0.00385 \ \Omega/\Omega/^{\circ}C$	-50° to 700°F (-45° to 370°C)
М	Platinum (Pt)	1000Ω	$\alpha = 0.00385 \ \Omega/\Omega/^{\circ}C$	-50° to 700°F (-45° to 370°C)

•

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



### **Electronic Temperature Sensor** Plug with Mating Jack • Thermocouple Element

he an	Color-coded Plug	Models	Sensor Type
<u>A</u>	Polarized Mating Jack	TJD TKD	Туре J T/C Туре K T/C
		Hot Junction	n Ungrounded
	The <b>Trerice Plug</b> with <b>Mating Jack</b> <b>Sensor</b> is available with a Type J or	Stem	316 stainless steel <sup>1</sup> /4" diameter
	Type K Thermocouple. This sensor is of	Insulation	Ceramic
	a simple design, and provides for easy installation or replacement. The plug is	Connection	Standard size plug with mating jack
	color coded by thermocouple type, and the mating jack is polarized to ensure proper installation.	Plug	Quick Disconnect, color coded
	Extension wire is also available.	Approximate	e Shipping Weight
	Please consult the Temperature Sensor Accessories Section for details.		0.3 lbs [0.14 kg]
DZ06UP shown	-	_ STEM _ LENGTH	
4			Ø.25 [6.4]

#### **Sensor Specifications**

4

1.31

**—** [33]

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)			
К	Yellow	Nickel-Chromium (Ni-Cr) [yellow]	Nickel-Aluminum* (Ni-Al) [red]	32° to 2282°F (0° to 1250°C)			

1.31 - [33] **--**

\*magnetic lead

**ELECTRONIC TEMPERATURE SENSORS** 

#### **HOW TO ORDER**

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

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

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

