

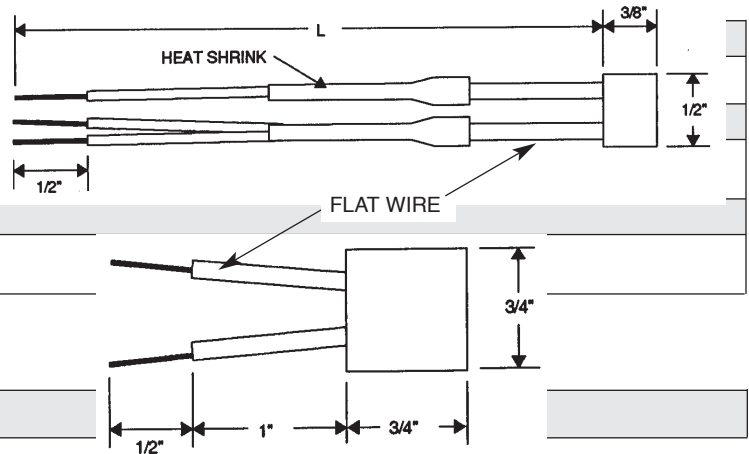
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PAD RTD'S

The JMS pad RTD is a speciality sensor which provides a fast response surface measurement. It is a 100 ohm platinum RTD with an alpha of $.00385 \Omega/\Omega/^{\circ}\text{C}$. Pad material is fiberglass coated with a silicon rubber.

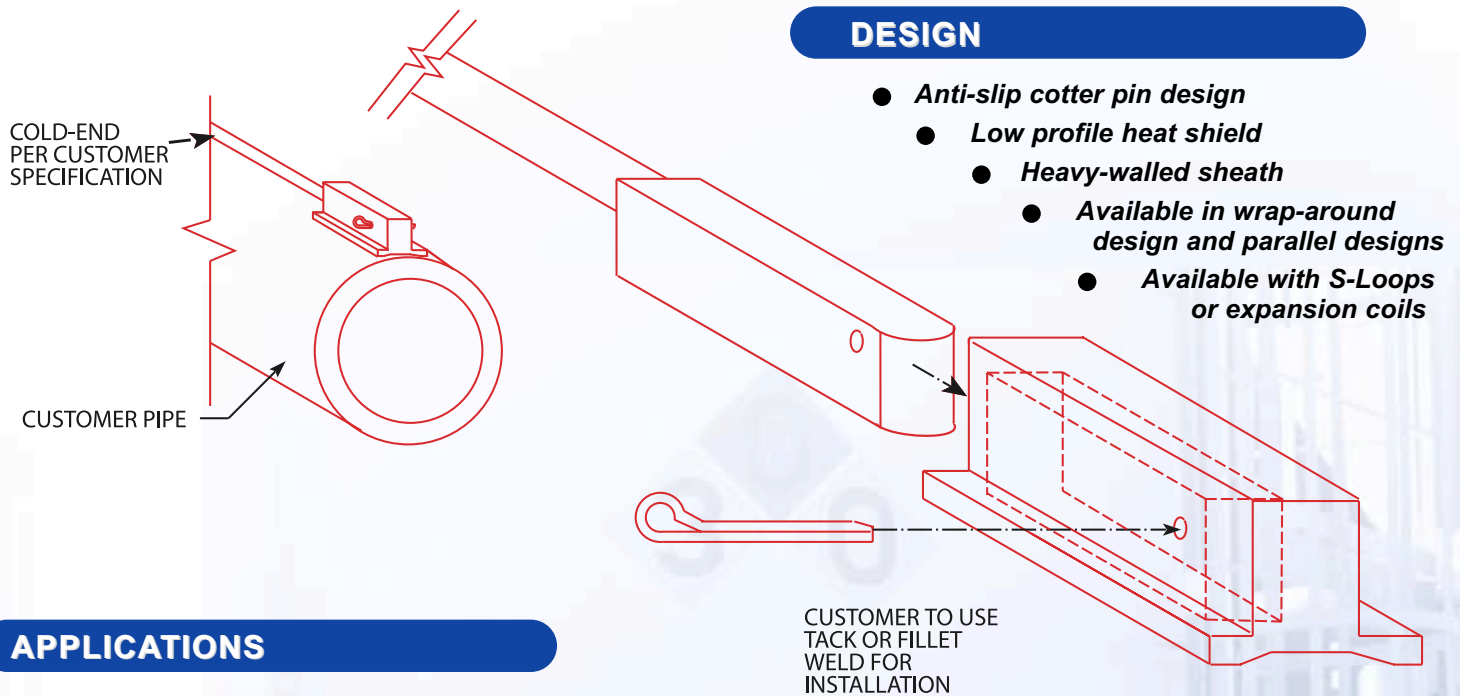
The pad RTD has an effective operating range from -200°C to 250°C and its tolerance is $.1\%$. Additional teflon leadwire is configured as a 3 wire RTD.

#1	SERIES		
4PAD	JMS pad RTD		
	#2	PAD DIMENSIONS	
	T	3/4" x 3/4", .05" Thick	
	L	1/2" W x 3/8" L, .05" Thick	
	#3	LENGTH OF LEADWIRE	
	Z	Standard 1"	
	X	Other, specify length in inches	
4PAD	T	Z	



MS Fasttrax

High accuracy removable Tube Skin Thermocouples



APPLICATIONS

- Single or dual fired furnace tubes
- Top, side, or bottom fired furnace tubes
- Boiler tubes in power plants
- Catalyst Tubes/Tube Sheath Reactors (i.e. Steam Methane Reformers, Polygas Units, Acrylic Acid Units)
- Steam Tracing Lines
- Coker Units
- External Skin Temperature for Hydroprocessing units (i.e. Hydrocracking, Hydrotreating Reactors)

INSTALLATION

- Installation or supervision available through JMS
- Supervision recommended
- E&I Tech can replace Fasttrax probe using only a ladder and a pair of pliers

LOW-COST REPLACEMENT

- Install Hardware **ONE TIME**
- No need to scaffold furnace
- No grinding off existing TSTC
- No grinding down to base metal for welding (causes additional tube thinning)
- No welders necessary
- No moving Tubeskin TC out of the initial zone you want to measure because you cannot weld near last Tubeskin TC
- Re-order **ONLY** the replaceable probe

DESIGN

- Anti-slip cotter pin design
- Low profile heat shield
 - Heavy-walled sheath
 - Available in wrap-around design and parallel designs
 - Available with S-Loops or expansion coils

HIGH RELIABILITY

- Fully protected probe
- S-Loops keep thermocouple sheath hidden and out of flame
- Clips placed on tube help hold thermocouple in place while process acts as a heat sink
- Wire contact will **NOT** slip from contact point due to JMS cotter pin design
- Safety
- Measure tube temperature, not process temperature
- Recognize tube wear and tube thinning
- Small offset allows you to push process furnace without sacrificing safety
- Highly accurate for safety

HIGH ACCURACY

- High accuracy direct contact with tube surface
- Bare wire is the standard by which all tube skin thermocouples are tested for accuracy
- Low profile heat shield
- Reduces effects of radiant heat on thermocouple