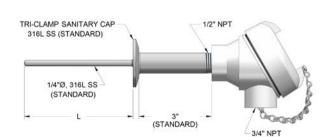
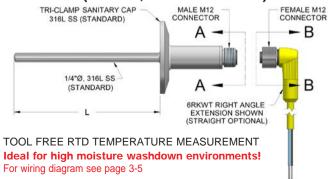
3-A APPROVED COMPLETE SENSORS

SANITARY CAP TYPICAL DESIGNS

TRI-CLAMP (16 AMP) (CAP OPTION "T")



3-A RTD with 4-20 mA INTEGRAL OUTPUT (RTD in, 4-20 mA OUT!!)



3-A APPROVED SANITARY SENSORS

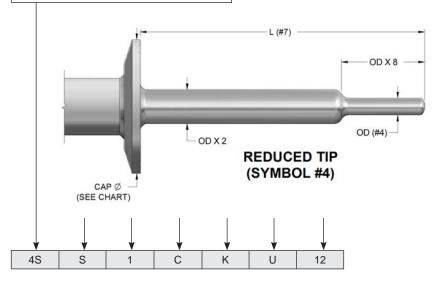
CIP (Clean-In-Place) line of 3-A certified sanitary thermocouples and RTDs from JMS are specially designed to meet the needs of the food, dairy, beverage, pharmaceutical, chemical and cosmetic industries. They are ideally suited for a number of applications where corrosion and contamination are factors. They are fabricated from stainless steel or other 3-A approved material using a method assuring imperfection-free surfaces. All sanitary grade thermocouples are provided to special limits of error. All sanitary RTDs are available in 4 wire construction.

Direct Immersion sanitary sensors incorporate sanitary caps manufactured per the ASME BPE standard. Removeable sensors for sanitary applications typically incorprate spring loaded fittings and are assembled with sanitary thermowells. Wetted materials are polished to a #4 finish to assure that there are no pits, folds or crevices. The exterior nipple, also stainless steel, can be joined to a connection head, designed to withstand caustic washdown. A typical RTD or Thermocouple (see pages 1-1 and 3-1) may be used with a sanitary thermowell (see pages 4-3 through 4-6).



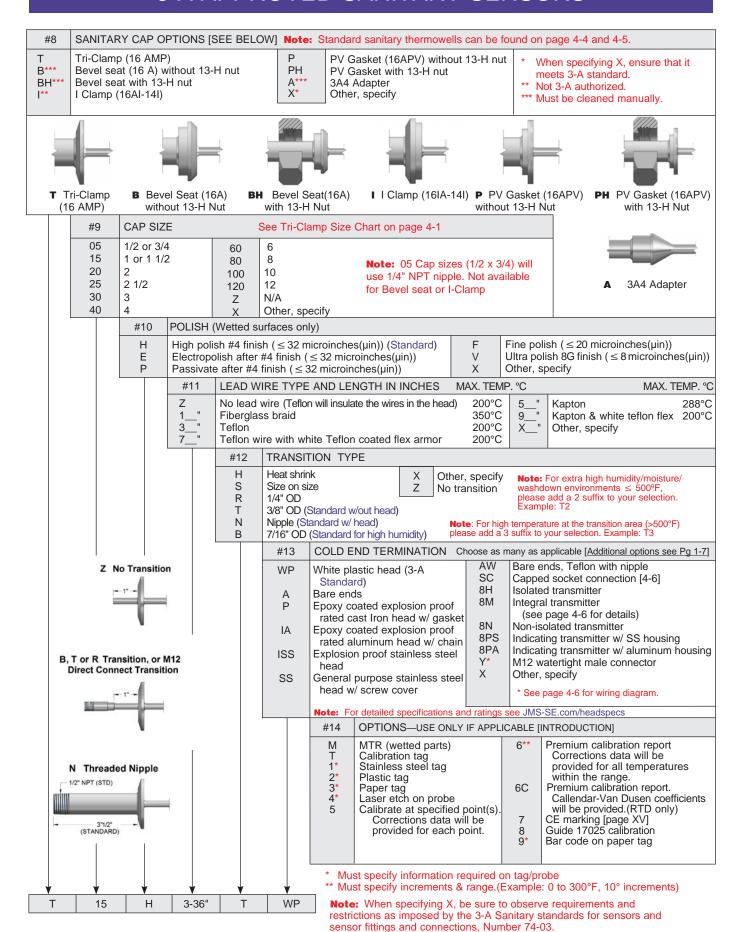
www.3-A.org

#1	DESCRIPTION										
4S	Sanitary	sensors									
	#2 RTD/THERMOCOUPLE TYPE (RTD-Platinum 0.00385 alpha (Ω/Ω/°C). Resistor accuracies at 0°C below & [3-									accuracies at 0°C below & [3-1,17,18]	
	B E P S X	E 4 wire ± 0.15°C P 4 wire ± 0.06°C S 4 wire ± 0.03°C (JMS Sta			ac 0°0 be	esistor curacies at C. Add 3 fore selection 3 wire RTD	T K J X	Thermocouple Options Copper/Constantan Chromel/Alumel Iron/Constantan Other, specify			
		#3	ELEMEN'	T CONST	RUCTION						
		1 2 X	Single Dual Other, sp	ecify							
			#4	OUTSIDE DIAMETER (OD)							
			A B C D	3/8" 1/4" 3/16" 1/8"		E 1/16" X Other Z NA	, specify	shank OD w	ill equal	d tip, add R before selection. The twice the tip OD. See illustration below. down from 1/2" to 1/4" at the tip)	
					TUBING	TUBING MATERIAL					
				K L H I X	316 stainless steel 316 low carbon stainless steel (Standard) 304 stainless steel 304 low carbon stainless steel Other, specify					Titanium	
					#6	MEASUR	ING JUNC	CTION			
[] Brackets indicate page numbers where additional helpful information can							Grounded Ungrounded (Standard) Note: RTDs are always ungrounded.				
be found in our technical catalog.						#7 IMMERSION LENGTH (L)					
Now available online at www.JMS-SE.com/TechnicalCatalog							Length in inches				



TRI-CLAMP (16 AMP) CAP SIZE CHART						
CAP SIZE (#9)	CAP Ø					
1/2 or 3/4	.984"					
1 or 1 1/2	1.984"					
2	2.516"					
2 1/2	3.047"					
3	3.579"					
4	4.682"					
6	6.570"					
8	8.563"					
10	10.563"					
12	12.563"					

3-A APPROVED SANITARY SENSORS



RTD WITH INTEGRAL PC PROGRAMMABLE TRANSMITTER

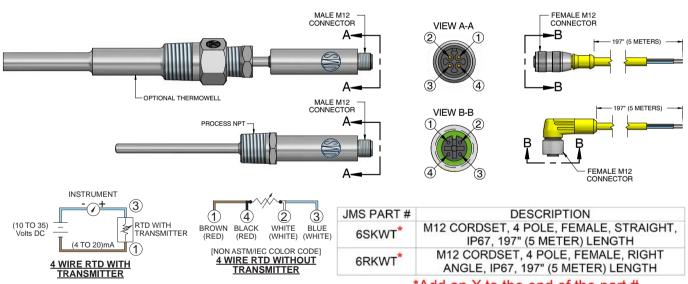
RTD with 4-20 mA INTEGRAL OUTPUT (RTD in, 4-20 mA out)

INDUSTRIAL STYLE INTEGRAL TRANSMITTER (Transmitter option see page 3-2, #14, 8M)

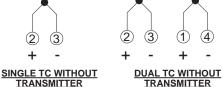
FEATURES:

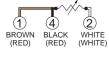
- PC programmable
- Carry a 4-20 mA to your PLC directly from the RTD with no special equipment.
- Available in fixed immersion and spring loaded for thermowells!!
- Quick-n-Clean M12 connection for easy replacement.
- NEMA 6P (IP67) rated with M12 connector.
- Ideal for most applications from -60 to 320°F.
- Ambient temperature limits -40 to 185°F.





*Add an X to the end of the part # to specify a custom cord length.





[NON ASTM/IEC COLOR CODE]
3 WIRE RTD WITHOUT
TRANSMITTER