

# RTD ASSEMBLIES COMPONENTS AND DESCRIPTIONS

Conax **wirewound platinum RTD assemblies** feature a wirewound element encased in either a stainless steel or Inconel 600 sheath. The RTD's nickel leadwires are supported and insulated throughout the sheath with densely compacted high-purity magnesium oxide. This allows the sensor to be bent like a thermocouple except in the tip portion that contains the element

**M-style construction** uses a powder-filled tubewell construction with bare leadwire strung through pre-formed MgO insulators and attached directly to the element. This assembly is inserted into a closed-end tubewell, which is then filled with Alumina Oxide ( $Al_2O_3$ ) powder and capped with potting compound. **E-style construction** features a similar tubewell construction, with Teflon®-insulated leadwires brazed to the element. The tubewell is then filled with Alumina Oxide ( $Al_2O_3$ ) powder and capped with potting compound. In both cases, the minimum active length is 3" and the assemblies should not be bent.

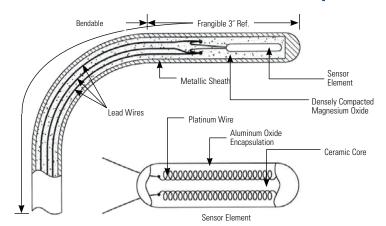
RTD assemblies can be provided with a wide variety of termination styles and mounting fittings to meet the needs of your application. Conax also offers numerous sensor tolerances, sheath diameters and sheath materials. This section outlines the key choices needed to specify the correct Conax part description for your needs.

In each case, you will be asked to select the:

- sensor element to meet your operating conditions and specifications
- sensor tolerance
- lead configuration corresponding to the number of leads your application requires
- sheath material and size
- termination style
- optional mounting configuration
- sheath length



# **Wirewound Platinum Element Assembly**



# **Sensor Element Descriptions**

Catalog Code	Description	Operating Range		
ERTD41	Wirewound Copper, $10\Omega$ (9.05 $\Omega$ actual) @ 0° C, 0.00426 $\Omega/\Omega/^{\circ}$ C	-70° C to +150° C	-94° F to +300° F	
ERTD42	Wirewound Nickel, 120 $\Omega$ @ 0° C, 0.00672 $\Omega/\Omega$ /°C	-40° C to +180° C	-40° F to +350° F	
RTD43	Wirewound Platinum, 100 $\Omega$ @ 0° C, 0.00385 $\Omega/\Omega$ /°C	-200° C to +600° C	-328° F to +1112° F	
MRTDF43	Thin Film Platinum, $100\Omega$ @ 0° C, $0.00385 \Omega/\Omega$ /°C	-50° C to +550° C	-58° F to +1022° F	
RTD44	Wirewound Platinum, 100 $\Omega$ @ 0° C, 0.00385 $\Omega/\Omega/$ °C	-200° C to +800° C	-328° F to +1472° F	
ARTD44	Wirewound Platinum, $100\Omega$ @ 0° C, 0.00385 $\Omega/\Omega/$ °C	-196° C to +600° C	-321° F to +1112° F	
RTD45	Wirewound Platinum, 100 $\Omega$ @ 0° C, 0.003916 $\Omega/\Omega$ /°C	-200° C to +600° C	-328° F to +1112° F	
RTD86	Wirewound Platinum, 200 $\Omega$ @ 0° C, 0.00385 $\Omega/\Omega/$ °C	-200° C to +600° C	-328° F to +1112° F	
MRTDF430	Thin Film Platinum, 1000 $\Omega$ @ 0° C, 0.00385 $\Omega/\Omega$ /°C	-50° C to +550° C	-58° F to +1022° F	

Note: Operating temperatures apply to element only. Assembly operating temperature depends on materials and construction.

When the RTD must fit into an existing network, the ice point resistance and temperature coefficient should match that of the readout equipment – usually found on the equipment nameplate.

Wirewound platinum elements consist of a filament encapsulated within longitudinal holes in a ceramic body. Thin-film elements (designated by "F") consist of a platinum film deposited onto a ceramic substrate and are available only in powder-filled construction.

ASTM F1137 specifications are met by ARTD44

These sensor types are also available: RTD48, Wirewound Platinum, 10  $\Omega$  @ 0° C, 0.00385  $\Omega$ / $\Omega$ /°C; MRTDF215, Thin Film Platinum, 500  $\Omega$  @ 0° C, 0.00385  $\Omega$ / $\Omega$ /°C. Consult factory.

Wirewound platinum element assemblies are also available in E-style and M-style construction, W tolerance, for certain applications. Consult factory.



## **Sensor Tolerances**

Class (Catalog Code)	Tolerance at 0°C (°C)									
	ERTD41	ERTD42		MRTDF43	RTD43 & RTD44		RTD45		RTD86	MRTDF430
	Single	Single	Dual	Single	Single	Dual	Single	Dual	Single	Single
Class B (W)*	-	-	-	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3
1/3 Class B (V)	_	-	-	-	±0.1	-	±0.1	-	-	-
Χ	±0.4	±0.8	±1.4	_	_	_	_	_	_	_
Class A (S)**	-	-	-	-	±0.15	-	±0.15	-	_	-

- Notes: This table represents tolerance values for 3-wire and 4-wire RTDs. Caution must be exercised with 2-wire RTDs and 3-wire RTDs with longer than standard termination leads because possible error can be introduced by leadwire resistance.
  - Class A and Class B tolerances are based on EN 60751:1996 for platinum elements.
- For ASTM E1137 assemblies, ARTD44, W tolerance applies, 4-wire lead configuration.
- \* Type W tolerance sensors are the most widely used in the industry.
- \*\* Type S should be 4 four-wire to ensure accuracy.

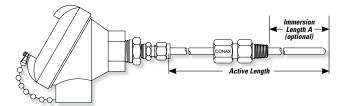
#### **Sheath Diameter and Material Availabilities**

Catalog Code		01 41 00 147 177	\A/ II TI : I			Single				Dual	
316 Stainless Steel	INCONEL 600	Sheath OD (inches)	Wall Thickness (nominal)	Sensor Element	W	٧	Χ	S	W	Χ	
316SS12 316SS118 (3mm)	INC12	0.125		RTD43	•	•		•	•		
			0.020	MRTDF43	•						
				RTD44	•	•		•			
	INC18	0.187		RTD45	•						
			0.028	RTD43	•	•		•	•		
316SS18				MRTDF43	•						
				RTD44	•	•		•	•		
				RTD45	•	•		•	•		
	INC25	0.250	0.033	ERTD41			•				
				ERTD42			•			•	
316SS25 316SS236 (6mm)				RTD43	•	•		•	•		
				MRTDF43	•						
				RTD44	•	•		•	•		
				ARTD44	•						
				RTD45	•	•		•	•		
				RTD86	•						
				MRTDF430	•						

- Notes: Per ASTM E1137, stainless steel is recommended for service temperatures not exceeding 900° F (480° C). Inconel 600 is recommended for service temperatures not exceeding 1202° F (650° C). Conax endorses these recommendations. Above 1202° F (650° C), high purity alumina sheathing is suggested.
  - All 0.125" sheath diameters can be supplied containing up to four wires. All 0.187 and 0.250" sheath diameters can be supplied containing up to eight wires.
- Maximum continuous standard probe length is 20 feet. For longer lengths, please consult the factory.

# **Active Length**

The active length must be specified as the last portion of the catalog description. The active length is the distance in inches from the termination to the sensor tip, as shown in the drawing. Note that you must order the active length, not the immersion. The active length is available in 1/16" increments.

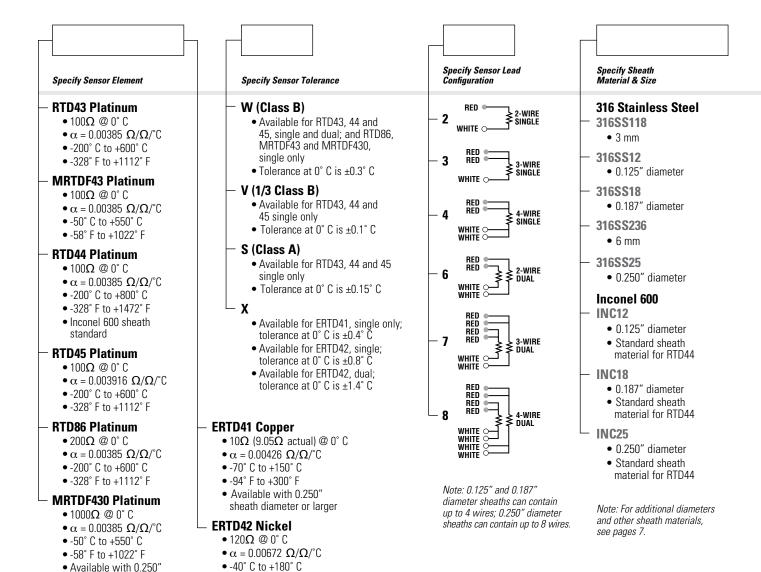


With adjustable fittings and spring-load assemblies, the immersion length is measured from the end of the fitting to the tip of the probe. In cases where this length must be called out in the catalog description, it is added at the end of the catalog number as follows:

Example: RTD-SS12-U-T5AL-SL-12.50", A=3.50" (A indicates the immersion length)

# RTD ASSEMBLIES TERMINAL HEAD AND DIRECT MOUNTING

Conax RTD assemblies offer a wide variety of terminal head styles to meet application needs. In direct mount models, the sheath is attached to the terminal head using either a W8 fitting or a Conax manufactured "soft seal" compression fitting. Compression seal models are provided in different sizes and with various sealant materials to ensure proper function in a wide range of environments. All provided direct mount fittings serve as mounting devices and environmental seals.



• -40° F to +350° F

 Available with 0.250" sheath diameter or larger

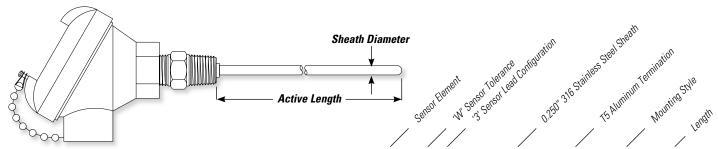
or ARTD44W4-INC25.

sheath diameter or larger

Note: For ASTM E1137 assemblies, use ordering prefix ARTD44W4-SS25

# TERMINAL HEAD AND DIRECT MOUNTING **TRANSPORT** RTD ASSEMB





Progressive Description Example: RTD 43 W3 - 316 SS25 - T5 A L (W8) - 12.00"

#### Specify Termination Style



#### **T5AL- Aluminum** T5CI - Cast Iron

- NEMA 4 rated
- Conduit port 3/4 NPT



#### T5SS

- NEMA 4X rated
- 316 stainless steel construction
- Conduit port 3/4 NPT



- Weather proof
- Aluminum conduit box accommodates up to 8 terminals
- · Conduit port 3/4 NPT



#### T8E

- Explosion proof rating Class I, Group B, C & D Class II, Group E, F & G Class III
- · Gray iron body with aluminum screw cover
- NEMA 4 rated
- Conduit port 1/2 NPT



- · Weather proof
- Aluminum construction
- Conduit port 1/2 NPT



## T11PL

- Weather proof
- Plastic construction
- Conduit port 1/2 NPSM



#### **T12**

- Weather proof
- Aluminum construction
- Flip-top head
- Conduit port 1/2 NPT



- FDA compliant, NEMA 4 rated
- White, unpigmented polypropylene construction
- Conduit port 3/4 NPT



# **T13F**

- FDA compliant, NEMA 4X rated
- White, unpigmented polypropylene construction
- Flip-top head
- Conduit port 3/4 NPT



#### Specify Mounting Style



#### **T13T**

- FDA compliant, NEMA 4X rated
- · White, unpigmented polypropylene construction
- 4 terminal posts
- Conduit port 3/4 NPT



#### T15EAL - Aluminum T15ESS - Stainless Steel

#### T15EAL(ATEX)

- · Explosion Proof rating Class 1, Division 1, Groups B, C and D and Dust Proof/Ignition Proof rating for Class II, Division 1, Group E, F & G
- Ratings: T15EAL NEMA 4, T15EŠS – NEMA 4X
- Conduit port 3/4 NPT

Note: For additional terminal head types and detailed descriptions, see page 43-47.



Specify Length in Inches (required)



- For 0.125", 0.187" and 0.250" diameter sheath
- Stainless steel construction
- Mounting thread 1/4 NPT

PG2BL - Lava sealant **PG2BT** – Teflon sealant

PG2BN - Neoprene sealant PG2BV - Viton sealant

PG2BG - Grafoil sealant



#### PG4

- For 0.250" diameter sheath
- · Stainless steel construction
- Mounting thread 1/2 NPT

PG4BL - Lava sealant **PG4BT** – Teflon sealant PG4BN - Neoprene sealant

PG4BV - Viton sealant PG4BG - Grafoil sealant



#### W4

- For 0.125", 0.187" and 0.250" diameter sheath
- 316 stainless steel construction
- Mounting thread 1/4 NPT
- · Sheath welded to fitting



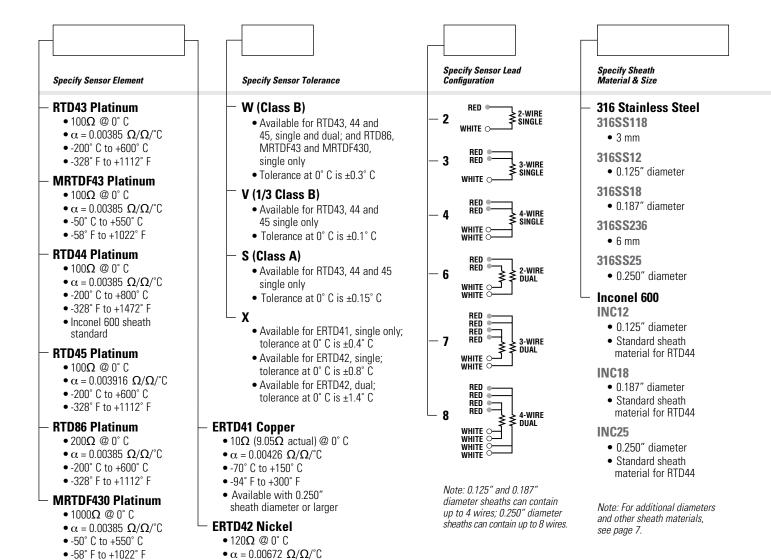
#### **W8**

- For 0.125", 0.187" and 0.250" diameter sheath
- 316 stainless steel construction
- Mounting thread 1/2 NPT
- Sheath welded to fitting

Note: For sealant material details, see page 37.

# RTD ASSEMBLIES TERMINAL HEAD AND ADJUSTABLE MOUNTING FITTING

Conax RTD assemblies can be supplied with a wide variety of terminal head styles to meet application needs. Adjustable mounting fittings using Conax "soft seal" compression fittings allow the immersion depth of the sheath to be easily adjusted in the field and provide pressure or vacuum sealing against gases or liquids. (Compression fittings are shipped untorqued.) Compression fitting models are offered in different sizes and with various sealant materials to ensure proper function in a wide range of environments. Additional information on sealing options, as well as sealant temperature and pressure ratings, can be found in our Conax Compression Seal Feedthroughs and Fittings Catalog #5001 or at www.conaxtechnologies.com.



Available with 0.250"

or ARTD44W4-INC25.

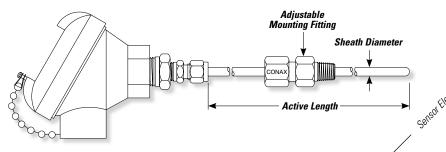
sheath diameter or larger

Note: For ASTM E1137 assemblies, use ordering prefix ARTD44W4-SS25

• -40° C to +180° C

-40° F to +350° F
Available with 0.250" sheath diameter or larger

# TERMINAL HEAD AND ADJUSTABLE MOUNTING FITTING - RTD ASSEM



0.28d 36 Stanless Steel Sheath W Sensul Tolerance Configuration

Progressive Description Example: RTD 43 W3 - 316 SS 25 - T5AL - PG 4AL - 12.00"

# Specify Termination Style

#### **T5AL- Aluminum** T5CI - Cast Iron

- NEMA 4 rated
- Conduit port 3/4 NPT



#### T5SS

- NFMA 4X rated
- 316 stainless steel construction
- Conduit port 3/4 NPT



- · Weather proof
- Aluminum conduit box accommodates up to 8 terminals
- Conduit port 3/4 NPT



- Explosion proof rating Class I, Group B, C & D Class II, Group E, F & G Class III
- Gray iron body with aluminum screw cover
- NEMA 4 rated
- Conduit port 1/2 NPT



- Weather proof
- · Aluminum construction
- Conduit port 1/2 NPT



#### T11PL

- Weather proof
- Plastic construction
- Conduit port 1/2 NPSM



#### **T12**

- Weather proof
- Aluminum construction
- Flip-top head
- Conduit port 1/2 NPT



### **T13T**

- FDA compliant, NEMA 4X rated
- White, unpigmented polypropylene construction
- 4 terminal posts
- Conduit port 3/4 NPT



#### T15EAL - Aluminum T15ESS - Stainless Steel

#### T15EAL(ATEX)

- · Explosion Proof rating Class 1, Division 1, Groups B, C and D and Dust Proof/Ignition Proof rating for Class II, Division 1, Group E, F & G
- Ratings: T15EAL NEMA 4, T15ESS - NEMA 4X
- Conduit port 3/4 NPT

Note: For additional terminal head types and detailed descriptions, see pages 43-47.

# Specify Mounting Style

**Packing Gland** 

#### **MPG**

- For 0.125" and 0.187" diameter sheath
- Stainless steel construction
- Mounting thread 1/8 NPT

MPGAL - Lava sealant **MPGAT - Teflon sealant MPGAN** – Neoprene sealant

MPGAV - Viton sealant MPGAG - Grafoil sealant



#### PG2

- For 0.125", 0.187" and 0.250" diameter sheath
- Stainless steel construction
- Mounting thread 1/4 NPT

PG2AL - Lava sealant PG2AT - Teflon sealant

**PG2AN** – Neoprene sealant

PG2AV - Viton sealant

PG2AG - Grafoil sealant



PG4

- For 0.250" diameter sheath
- Stainless steel construction
- Mounting thread 1/2 NPT

PG4AL - Lava sealant

PG4AT - Teflon sealant

**PG4AN** – Neoprene sealant

PG4AV - Viton sealant

PG4AG - Grafoil sealant

#### Midlock Gland

(required)



## **MK125A**

Specify Length in Inches

- For 0.125" diameter sheath
- Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/8 NPT



#### **MK187A**

- For 0.187" diameter sheath
- · Stainless steel construction
- · Stainless steel ferrule
- Mounting thread 1/8 NPT



#### MK250A

- For 0.250" diameter sheath
- · Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/4 NPT

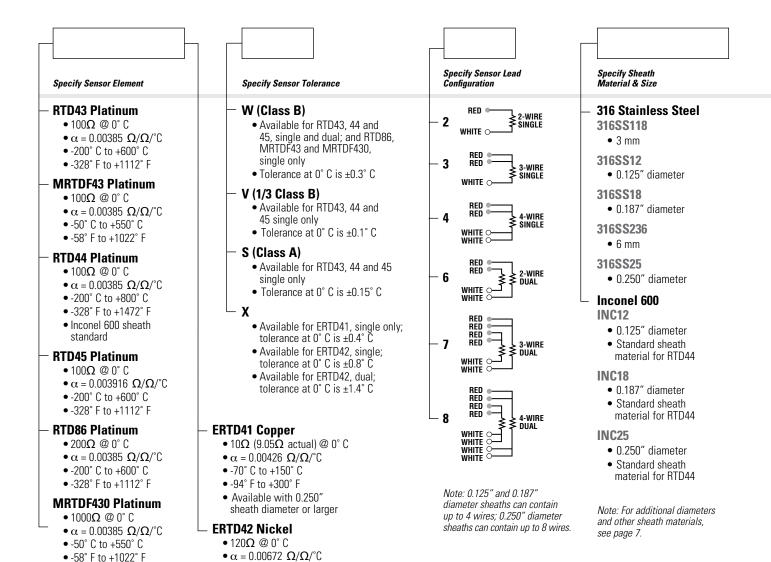
Note: For sealant material details, see page 37.

This assembly may be purchased without the mounting fitting. Omit the mounting style from the description. The catalog description in this case would be RTD43W3-316SS25-T5AL-12.00".



# TERMINAL HEAD AND SPRING LOADED MOUNTING

Conax spring-loaded assemblies are used to maintain positive contact between the sensor tip and the surface to be monitored, typically used with thermowell assemblies. Conax supplies a number of styles of spring-loaded assemblies to meet application needs. Spring-loaded assemblies can be provided with all terminal heads. In addition, the T11SL model provides a spring-loaded assembly built into the T11 aluminum terminal head. This allows complete disassembly and removal of the sensor probe without dismantling the terminal head from the conduit or the vessel. For detailed information on these mounting styles, see pages 40-41.



Note: For ASTM E1137 assemblies, use ordering prefix ARTD44W4-SS25 or ARTD44W4-W4-W25

sheath diameter or larger

Available with 0.250"

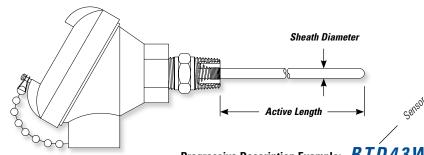
• -40° C to +180° C

• -40° F to +350° F

 Available with 0.250" sheath diameter or larger

# TERMINAL HEAD AND SPRING LOADED MOUNTING **RTD ASSEN**





Sensor Lement, W. Sensor Tolerance Configuration, O. 15th, 3 to Stainless Steel Schedur, Mounting Style

Progressive Description Example: RTD43W3-316SS25-T5AL(CSLW)-12.00"

#### Specify Termination Style



#### T5AL- Aluminum T5Cl - Cast Iron

- NEMA 4 rated
- Conduit port 3/4 NPT



#### T5SS

- NEMA 4X rated
- 316 stainless steel construction
- Conduit port 3/4 NPT



- Weather proof
- Aluminum conduit box accommodates up to 8 terminals
- Conduit port 3/4 NPT

T8E



- Explosion proof rating Class I, Group B, C & D Class II, Group E, F & G Class III
- Gray iron body with aluminum screw cover
- NEMA 4 rated
- Conduit port 1/2 NPT



#### T11

- · Weather proof
- Aluminum construction
- Conduit port 1/2 NPT



# T11PL

- Weather proof
- Plastic construction
- Conduit port 1/2 NPSM



## T12

- · Weather proof
- · Aluminum construction
- Flip-top head
- Conduit port 1/2 NPT



#### **T13T**

- FDA compliant, NEMA 4X rated
- White, unpigmented polypropylene construction
- 4 terminal posts
- Conduit port 3/4 NPT



#### T15EAL - Aluminum T15ESS - Stainless Steel

#### T15EAL(ATEX)

- Explosion Proof rating Class 1, Division 1, Groups B, C and D and Dust Proof/Ignition Proof rating for Class II, Division 1, Group E, F & G
- Ratings: T15EAL NEMA 4, T15ESS – NEMA 4X
- Conduit port 3/4 NPT

Note: For additional terminal head types and detailed descriptions, see pages 43-47.





- For 0.125", 0.187" and 0.250" diameter sheaths
- Stainless steel construction
- Mounting thread 1/2 NPT



#### **SLAN**

- For 0.125", 0.187" and 0.250" diameter sheaths
- · Stainless steel construction
- Mounting thread 1/2 NPT
- Probe position can be adjusted in the field



#### **SLANS**

- For 0.250" diameter sheath
- Includes Viton O-ring
- Stainless steel construction
- Mounting thread 1/2 NPT
- Probe position can be adjusted in the field



Specify Length in Inches (required)





- For 0.125", 0.187" and 0.250" diameter sheath
- Mounting thread 1/2 NPT
- Most durable



#### SL

- Spring-loaded packing gland
- Spring travel: 1/4" to 3/8"
- 2-8 pounds spring pressure
- Stainless steel construction, Teflon sealant
- Available with B cap for direct mount
- Additional dimensional data required, see page 40.

#### **SL12**

- For 0.125" diameter sheath
- Mounting thread 1/8 NPT

#### **SL18**

- For 0.187" diameter sheath
- Mounting thread 1/4 NPT

#### SL25

- For 0.250" diameter sheath
- Mounting thread 1/2 NPT
- Optional 1/4 NPT mounting thread is available. Consult factory.

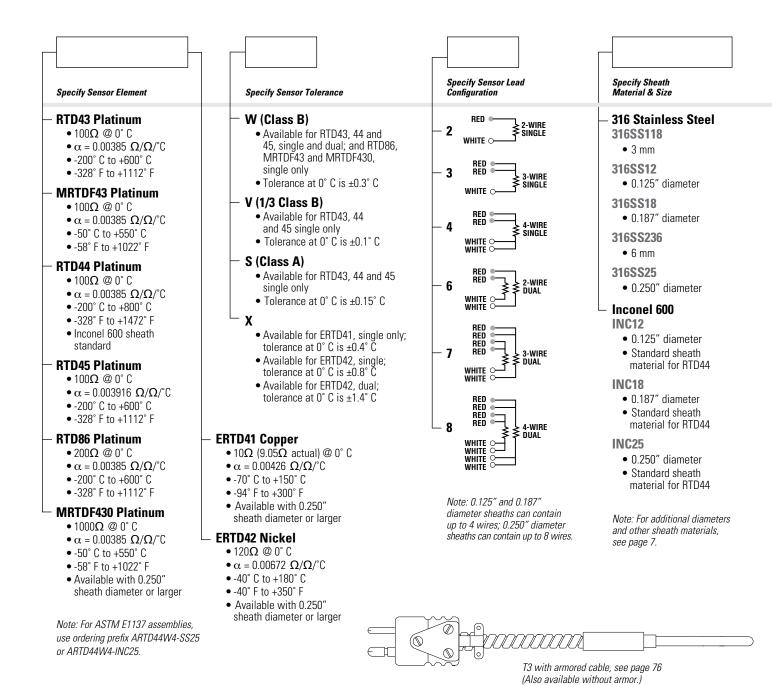
For additional information on springloaded mounting styles, see pages 40-41.



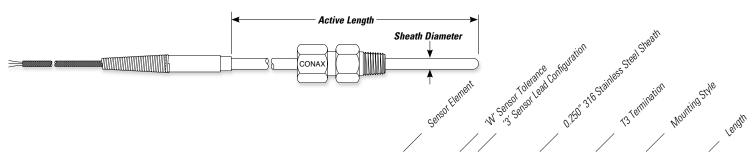
# RTD ASSEMBLIES LEADWIRE (T3/T4) TERMINATION AND TERMINAL BARREL

This exclusive Conax design provides a practically unbreakable connection between the leadwire and the probe lead. The T3 epoxy-filled transition is supplied with 24 AWG stranded silver-plated copper Teflon-insulated wire with Teflon overall as standard. Silicone impregnated fiberglass insulation is also available.

T4 termination provides a stainless steel overbraid for maximum flexibility and abrasion resistance. The overbraid is embedded in the epoxy-filled material to ensure mechanical strength. Standard extension leads are 24" long. Longer leads are available on request.



# LEADWIRE (T3/T4) TERMINATION AND TERMINAL BARREL **TD ASSEMBL**



Progressive Description Example: RTD 43 W3 - 316 SS 25 - T3 - PG 4 A L - 12.00"

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#### Specify Termination Style

#### **T3**

- Teflon insulated leadwire
- Service temperature: 300° F (150° C)

#### **T**4

- Teflon insulated leadwire
- · Stainless steel overbraid
- Service temperature: 300° F (150° C)

#### T4F

- Fiberglass/silicone impregnated leadwire insulation
- Stainless steel overbraid
- Service temperature: 300° F (150° C)

#### T4(HT)

- Fiberglass/silicone impregnated
- Stainless steel overbraid
- High temperature encapsulant
- Service temperature: 900° F (482° C)

For longer lead length, specify in feet, rounded up to the nearest foot. Example: T3(3 FT)

Optional leadwire insulation types are available. Example: PVC requested — T3(3 FT-PVC). Consult factory for availability.

For detailed descriptions of termination styles, see pages 42-43.

#### **Packing Gland**



MPG

Specify Mounting Style (optional)

- For 0.125" and 0.187" diameter sheath
- Stainless steel construction
- Mounting thread 1/8 NPT

MPGAL - Lava sealant

**MPGAT** – Teflon sealant

MPGAN - Neoprene sealant

MPGAV – Viton sealant

MPGAG - Grafoil sealant



PG2

- For 0.125", 0.187" and 0.250" diameter sheath
- Stainless steel construction
- Mounting thread 1/4 NPT

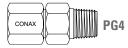
PG2AL – Lava sealant

PG2AT – Teflon sealant

**PG2AN** – Neoprene sealant

PG2AV – Viton sealant

PG2AG - Grafoil sealant



- For 0.250" diameter sheath
- Stainless steel construction
- Mounting thread 1/2 NPT

PG4AL – Lava sealant

PG4AT – Teflon sealant

PG4AN - Neoprene sealant

PG4AV – Viton sealant

PG4AG – Grafoil sealant

#### Midlock Gland

Specify Length in Inches



(required)

**MK125A** 

- For 0.125" diameter sheath
- Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/8 NPT



MK187A

- For 0.187" diameter sheath
- Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/8 NPT



MK250A

- For 0.250" diameter sheath
- Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/4 NPT

#### **Spring-Load**

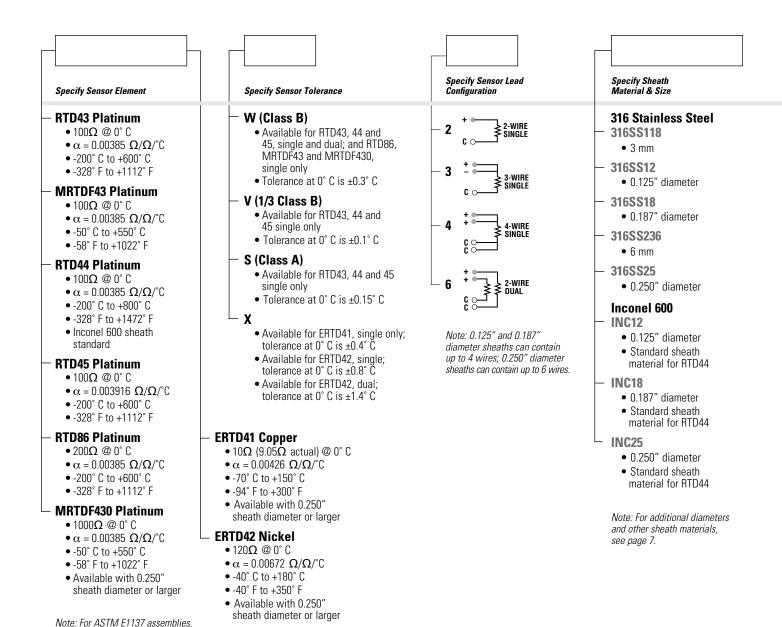


- For 0.125", 0.187" and 0.250" diameter sheaths
- Stainless steel construction
- Mounting thread 1/2 NPT

Note: For sealant material details, see page 37.

# RTD ASSEMBLIES - PJFC-PLUG/JACK TERMINATION

Conax polarized plug and jack assembly bodies are made from molded glass-filled thermoset compounds, with copper pin material. The connector is color-coded white. A metal ferrule tube adapter secures the probe in place, and a wire clamp is used to hold the wire. Standard assemblies are designed to operate in temperatures up to 300° F (150° C). High temperature assemblies operate up to 800° F (427° C) and are color-coded red. Polarity marks are molded in the bodies for installation assistance. Individual plugs, jacks, tube adapters and wire clamps are also available.

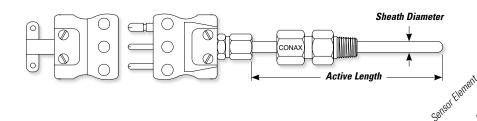


or ARTD44W4-INC25.

use ordering prefix ARTD44W4-SS25

# PJFC-PLUG/JACK TERMINATION ■ RTD ASSEMB





W Serson Tolk ance Company tion

Progressive Description Example: RTD43W3-316SS25-PJFC-PG4AL-12.00"



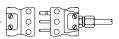
#### Specify Termination Style



**PJ** – Male plug only **PJHT** – Male plug only, high temperature



**PF** – Female jack only PFHT - Female jack only, high temperature



**PJF** – Male plug & female jack **PJFHT** – Male plug & female jack, high temperature



**PJFC** – Plug, jack & wire clamp **PJFCHT** – Plug, jack & wire clamp, high temperature



**MPJ** – Miniature male plug only **MPJHT** – Miniature male plug only, high temperature



MPF - Miniature female jack only **MPFHT** – Miniature female jack only, high temperature



MPJF – Miniature male plug and female jack

MPJFHT - Miniature male plug and female jack, high temperature



MPJFC - Miniature plug, jack and wire clamp

MPJFCHT - Miniature plug, jack and wire clamp, high temperature

# **Packing Gland**



**MPG** For 0.125" and 0.187"

Specify Mounting Style (optional)

- diameter sheath Stainless steel construction
- Mounting thread 1/8 NPT

MPGAL - Lava sealant

**MPGAT** – Teflon sealant

**MPGAN** – Neoprene sealant

**MPGAV** – Viton sealant MPGAG - Grafoil sealant



- For 0.125", 0.187" and 0.250" diameter sheath
- Stainless steel construction
- Mounting thread 1/4 NPT

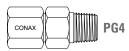
PG2AL - Lava sealant

**PG2AT – Teflon sealant** 

PG2AN - Neoprene sealant

PG2AV - Viton sealant

PG2AG – Grafoil sealant



- For 0.250" diameter sheath
- Stainless steel construction
- Mounting thread 1/2 NPT

**PG4AL** – Lava sealant

PG4AT – Teflon sealant

PG4AN – Neoprene sealant

PG4AV - Viton sealant

PG4AG - Grafoil sealant

#### Midlock Gland

(required)



**MK125A** 

• For 0.125" diameter sheath

Specify Length in Inches

- Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/8 NPT



**MK187A** 

- For 0.187" diameter sheath
- Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/8 NPT



**MK250A** 

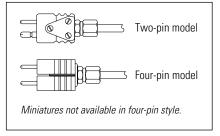
- For 0.250" diameter sheath
- Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/4 NPT

#### Spring-Load



- For 0.125", 0.187" and 0.250" diameter sheaths
- Stainless steel construction
- Mounting thread 1/2 NPT

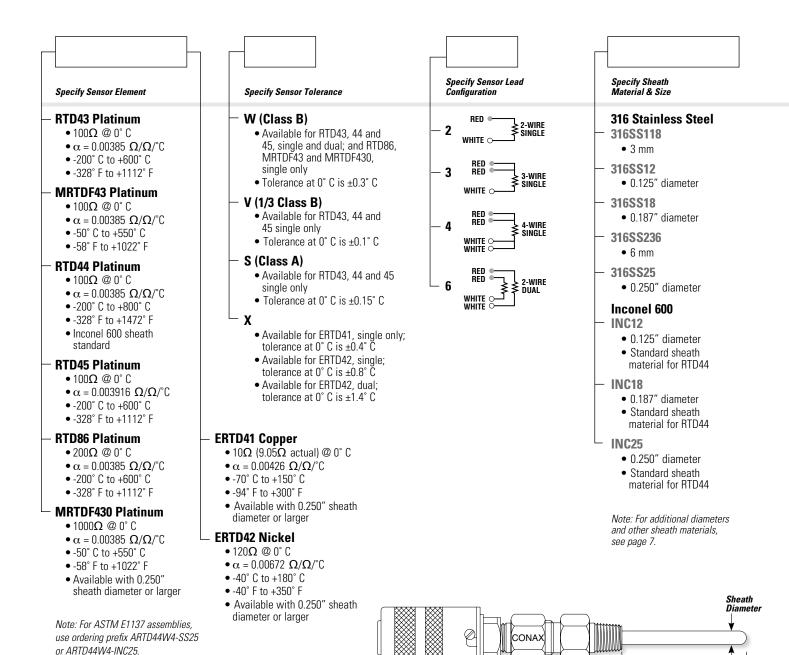
Note: For sealant material details, see page 37.



For detailed descriptions of termination styles, see page 46.

# RTD ASSEMBLIES - COMPACT CONNECTION TERMINAL HEAD (B-SERIES)

Conax B-Series heads are compact, lightweight terminal heads that provide convenient hook-up of customer extension wire. The cap and body are nickel-plated to resist corrosion. The ceramic terminal block contains zinc-plated brass terminal posts that accept up to 14 AWG wire. Bayonet-style cover allows easy access to the terminal posts. B-Series heads are provided in direct or adjustable mounting styles.



CONAX TECHNOLOGIES

Bul meinter gd

Progressive Description Example: RTD43W3-316SS25-B 3(PG2BN)-12.00"

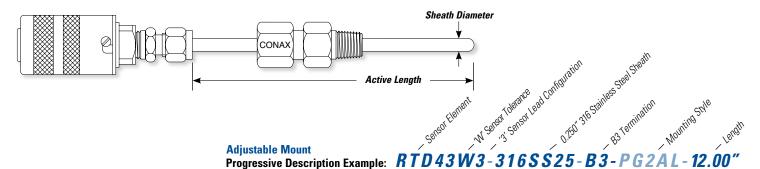
" 0.750" 370 pl

Active Length

Length

B3 Termination

# **COMPACT CONNECTION TERMINAL HEAD (B-SERIES) RTD ASSEMB**



Specify Termination Style



#### R2

- Standard 2-wire
- Maximum service temperature is 200° F (93.3° C) with grommet and O-ring; 750° F (400° C) with grommet and O-ring removed.

#### **B3**

- Standard 3-wire
- Maximum service temperature is 200° F (93.3° C) with grommet and O-ring; 750° F (400° C) with grommet and O-ring removed

#### **B4**

- Standard 4-wire
- Maximum service temperature is 200° F (93.3° C) with grommet and O-ring; 750° F (400° C) with grommet and O-ring removed

For detailed descriptions of termination styles, see pages 46.

### **DIRECT MOUNT Packing Gland**

Specify Mounting Style



- For 0.125" and 0.187" diameter sheath
- Stainless steel construction
- Mounting thread 1/8 NPT

MPGBL – Lava sealant MPGBT – Teflon sealant MPGBN - Neoprene sealant MPGBV - Viton sealant MPGBG - Grafoil sealant



- For 0.125", 0.187" and 0.250" diameter sheath
- Stainless steel construction
- Mounting thread 1/4 NPT

PG2BL - Lava sealant

**PG2BT** – Teflon sealant

**PG2BN** – Neoprene sealant

PG2BV - Viton sealant

PG2BG - Grafoil sealant



W4

- For 0.125", 0.187" & 0.250" diameter sheath
- 316 stainless steel construction
- Mounting thread 1/4 NPT
- · Sheath welded to fitting

## **ADJUSTABLE MOUNT** (optional) **Packing Gland**



- For 0.125" and 0.187" diameter sheath
- Stainless steel construction
- Mounting thread 1/8 NPT

MPGAL – Lava sealant MPGAT – Teflon sealant

**MPGAN** – Neoprene sealant

MPGAV - Viton sealant

MPGAG - Grafoil sealant



- For 0.125", 0.187" and 0.250" diameter sheath
- · Stainless steel construction
- Mounting thread 1/4 NPT

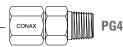
PG2AL - Lava sealant

**PG2AT** – Teflon sealant

PG2AN - Neoprene sealant

PG2AV - Viton sealant

PG2AG - Grafoil sealant



- For 0.250" diameter sheath
- Stainless steel construction
- Mounting thread 1/2 NPT

PG4AL – Lava sealant

PG4AT - Teflon sealant PG4AN - Neoprene sealant

PG4AV – Viton sealant PG4AG - Grafoil sealant

# Midlock Gland



(required)

For 0.125" diameter sheath

Specify Length in Inches

- Stainless steel construction
- · Stainless steel ferrule
- Mounting thread 1/8 NPT



- For 0.187" diameter sheath
- Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/8 NPT



- For 0.250" diameter sheath
- Stainless steel construction
- · Stainless steel ferrule
- Mounting thread 1/4 NPT

Note: For sealant material details. see page 37.

