

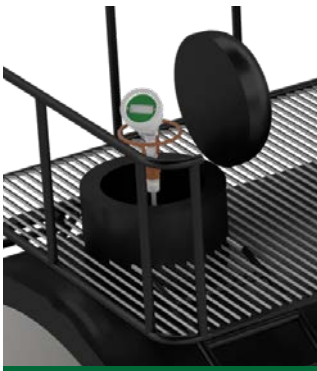
**RAILCAR TEMPERATURE PROBES**

Reotemp's Railcar Temperature Probes allow railcar terminals to measure the temperature of incoming and outgoing crude oil, corn syrup and other tanker fluids. These probes can also be used in similar applications for tanks, silos and/or transport containers. Reotemp offers a digital version with sliding union connection that allows the user to adjust the probe insertion depth. The multipoint version allows for 3 readings at once, at various depths, eliminating the need for stem adjustment.

RTD



	Plain Stem	Digital	Multipoint	Hard Wired	Bimetal
	RCPS	RCDL	RCMP	RCHW	RCJJ
# of Sensors	1	1	3 (Custom Depths)	1	1
Max Stem Length	15 ft.	15 ft.	15 ft.	15 ft.	8 ft.
Standard Connection	3/4" or 1/2" NPT (Facing Wires)	3/4" or 1/2" NPT Adj. Sliding Union	3/4", 1", or 1.5" NPT	3/4" or 1/2" NPT Adj. Sliding Union	3/4" NPT Adj. Sliding Union
Head & Display	None or Customer Supplied	4 Digit LCD Display (Explosion Proof Available)	Explosion Proof Head w/ LCD Readout and Multi-position Switch	None	Dial



Temperature sensor attaches to railcar with a standard threaded connection.



Made in USA



**FEATURES / BENEFITS**

- Measure Material Temperature Upon Arrival, Handling, & Departure
- Adjustable Insertion Depth
- Multipoint Model Offers 3 Sensors in One Stem and Explosion Proof Design, CSA Approved
- Heavy-Duty Construction

## RAILCAR TEMPERATURE PROBES

**BUILD YOUR DIGITAL RAILCAR PROBE:** Choose options to build a part number. For example: **RCDL0600S21**

<b>RCDL</b>	<b>0600</b>	<b>S2</b>	<b>1</b>	
<b>MODEL</b>	<b>STEM LENGTH "X"</b>	<b>PROCESS CONNECTION</b>	<b>TEMPERATURE RANGE</b>	<b>OPTIONS</b>

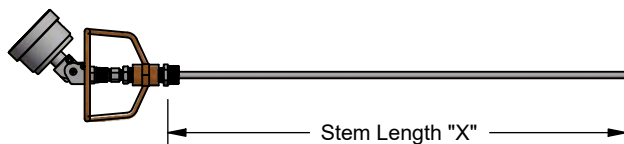
**RCDL** = Digital Rail Car Thermometer with orange handle, 3" Dial, adjustable angle connection, blunt tip, 3/8" diameter stem, 100Ω RTD

**0360** = 36" Stem  
**0480** = 48" Stem  
**0600** = 60" Stem  
**0720** = 72" Stem  
**0840** = 84" Stem  
**0960** = 96" Stem  
**????** = Enter Stem Length in Inches (Example: 0840 equals 84 inches)

**S3** = Sliding Union with 3/4" NPT  
**S2** = Sliding Union with 1/2" NPT

Code	Temp. Range	Resolution
<b>1</b>	-58°F to 392°F	0.1°
<b>2</b>	-50°C to 200°C	0.1°
<b>3</b>	-328°F to 1112°F	1°
<b>4</b>	-200°C to 600°C	1°

**PS** = Pointed Stem  
**EH** = Explosion Proof Head FM, CSA, ATEX, & IECEx Approved, EH Head is not adjustable angle, Bottom Connection Only



**EH** Explosion Proof Head Option



For additional options see page 147.

**EH Head Approvals**

FM Approved Enclosure Only: CL. I. GR. A,B,C,D; CL. II. GR E,F,G; CL. III.; Type 4X. For CSA Class I, Group A, conduit seal is required within 18 inches. CL. I, ZONE 1, ATEX: d IIC, IP66. ATEX: II 2GD Ex d tD A21 IIC, FTZU 04 ATEX 0265U. IECEx FMG 06.0003U, Ex d II C, IP68. Approvals held by Limatherm 34-600 Limanowa Poland.

**BUILD YOUR MULTIPOINT RAILCAR PROBE:** Choose options to build a part number. For example: **RCMP1096003600720**

<b>RCMP</b>	<b>1</b>	<b>0960</b>	<b>0360</b>	<b>0720</b>	
<b>MODEL</b>	<b>PROCESS CONNECTION</b>	<b>STEM LENGTH "X"</b>	<b>SENSOR MIDDLE POINT</b>	<b>SENSOR TOP POINT</b>	<b>OPTIONS</b>

**RCMP** = Multipoint with Explosion Proof Head and Multi-position switch, 100Ω RTD

**3** = 3/4" NPT  
**1** = 1" NPT  
**1.5** = 1.5" NPT

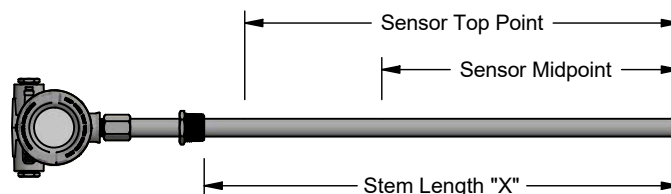
**180" Max Stem Length**  
**0960** = 96" Stem  
**1080** = 108" Stem  
**1200** = 120" Stem  
**1320** = 132" Stem  
**1800** = 180" Stem  
**????** = Enter Stem Length in Inches (Example: 0840 equals 84 inches)

**0360** = Middle Sensor Located 36" From the Bottom of the Stem  
**????** = Enter Stem Length in Inches (Example: 0400 equals 40 inches)

**0720** = Top Sensor Located 72" From the Bottom of the Stem  
**????** = Enter Stem Length in Inches (Example: 0800 equals 80 inches)

= Blunt Tip (Standard)  
**PS** = Pointed Stem

For additional options see page 147.



Note: Third sensor is located at tip of probe.

**RAILCAR TEMPERATURE PROBES**

**BUILD YOUR HARD WIRED RAILCAR PROBE:** Choose options to build a part number. For example: **RCHW0600S21200**

**RCHW**

**0600**

**S2**

**1200**



MODEL	STEM LENGTH "X"	PROCESS CONNECTION	LEADWIRE LENGTH	OPTIONS
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**RCHW** = Hard-wired Rail Car Thermometer with Orange Handle, Blunt Tip, 3/8" Diameter Stem, Type K Thermocouple with Mini Male Plug

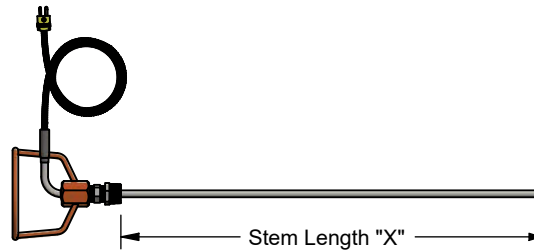
**0360** = 36" Stem  
**0480** = 48" Stem  
**0600** = 60" Stem  
**0720** = 72" Stem  
**0840** = 84" Stem  
**0960** = 96" Stem  
**????** = Enter Stem Length in Inches (Example: 0840 equals 84 inches)

**S3** = 3/4" NPT  
**S2** = 1/2" NPT

**1200** = 120" Stainless Steel Armor Lead Wire  
**1400** = 140" Stainless Steel Armor Lead Wire  
**????** = Enter Stainless Steel Armor Lead Wire in Inches (Example: 840 = 84")

**PS** = Pointed Stem  
**THH503** = Handheld Digital Display, Type K Jack

*For additional options see page 147.*



**BUILD YOUR PLAIN STEM RAILCAR PROBE:** Choose options to build a part number. For example: **RCPS3096037PX**

**RCPS**

**3**

**0960**

**37**

**PX**



MODEL	PROCESS CONNECTION	STEM LENGTH "X"	STEM DIAMETER	SENSOR TYPE	OPTIONS
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**RCPS** = Plain Stem Rail Car, Blunt Tip, 6" Lead Stripped

**3** = 3/4" NPT  
**2** = 1/2" NPT

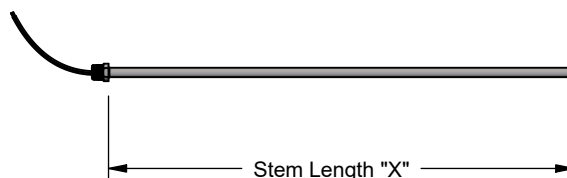
**180" Max Stem Length**  
**0960** = 96" Stem  
**1080** = 108" Stem  
**1200** = 120" Stem  
**1320** = 132" Stem  
**1800** = 180" Stem  
**????** = Enter Stem Length in Inches (Example: 0840 equals 84 inches)

**37** = 3/8" Diameter  
**50** = 1/4" Schedule 40 Pipe (Nominal 1/2" Diameter)

**PX** = 100Ω RTD, 3 Wire  
**PB** = 100Ω RTD, 4 Wire  
**K** = Type K Thermocouple, Single  
**J** = Type J Thermocouple, Single

**PS** = Pointed Stem  
**CSH** = Customer Supplied Head

*For additional options see page 147.*

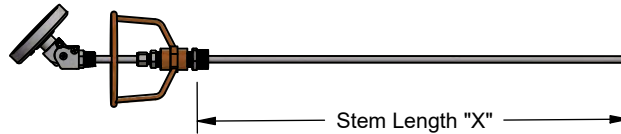


RTD

## RAILCAR TEMPERATURE PROBES

**BIMETAL VERSION:** Choose options to build a part number. For example: RCJJ0600S2F47

RCJJ	0600	S2	F47		
MODEL	STEM LENGTH "X"	PROCESS CONNECTION	TEMPERATURE RANGE	OPTIONS	
<p><b>RCJJ</b> = Rail Car Thermometer with orange handle, 5" Dial, adjustable angle connection, blunt tip, 3/8" diameter stem</p>	<p><b>0360</b> = 36" Stem  <b>0480</b> = 48" Stem  <b>0600</b> = 60" Stem  <b>0720</b> = 72" Stem  <b>0840</b> = 84" Stem  <b>0960</b> = 96" Stem  <b>????</b> = Enter Stem Length in Inches (Example: 0840 equals 84 inches)</p>	<p><b>S3</b> = Sliding Union with 3/4" NPT  <b>S2</b> = Sliding Union with 1/2" NPT</p>	<p><i>Fahrenheit Ranges</i>  <b>F23</b> = -40°F to 160°F  <b>F55</b> = 25°F to 125°F  <b>F43</b> = 0°F to 200°F  <b>F47</b> = 0°F to 250°F  <b>F63</b> = 50°F to 300°F  <b>F67</b> = 50°F to 500°F  <b>F69</b> = 50°F to 550°F  <b>F81</b> = 150°F to 750°F  <b>F85</b> = 200°F to 1000°F</p> <p><i>Celsius Ranges</i>  <b>C23</b> = -40°C to 70°C  <b>C55</b> = 0°C to 50°C  <b>C43</b> = 0°C to 100°C  <b>C47</b> = -20°C to 120°C  <b>C59</b> = 0°C to 150°C  <b>C67</b> = 0°C to 250°C  <b>C69</b> = 0°C to 300°C  <b>C73</b> = 0°C to 400°C  <b>C85</b> = 100°C to 500°C</p>	<p><i>Dual Scale Ranges</i>  <b>D23</b> = -40°F to 160°F &amp; -40°C to 70°C  <b>D55</b> = 25°F to 125°F &amp; -5°C to 50°C  <b>D43</b> = 0°F to 200°F &amp; -10°C to 90°C  <b>D47</b> = 0°F to 250°F &amp; -20°C to 120°C  <b>D63</b> = 50°F to 300°F &amp; 10°C to 150°C  <b>D67</b> = 50°F to 500°F &amp; 10°C to 260°C  <b>D69</b> = 50°F to 550°F &amp; 10°C to 290°C  <b>D81</b> = 150°F to 750°F &amp; 70°C to 400°C  <b>D85</b> = 200°F to 1000°F &amp; 100°C to 500°C</p> <p><i>Additional Ranges Available</i></p>	<p><b>PS</b> = Pointed Stem</p>



RTD

## THERMOCOUPLE & RTD OPTIONS

		Thermocouple	RTD	Digital Thermometers	Handheld Digital
<b>CERTIFICATION OPTIONS</b>					
<b>-R1</b>	1 Point Calibration Certification, Reotemp Chooses	✓	✓	✓	✓
<b>-R3</b>	3 Point Calibration Certification, Reotemp Chooses	✓	✓	✓	✓
<b>-C1</b>	1 Point Calibration Certification, Customer Chooses	✓	✓	✓	✓
<b>-C3</b>	3 Point Calibration Certification, Customer Chooses	✓	✓	✓	✓
<b>-CC</b>	Certificate of Conformance	✓	✓	✓	✓
<b>-CS</b>	NIST Calibration Sticker (No Logged Points)	✓	✓	✓	✓
<b>OTHER OPTIONS</b>					
<b>-VB</b>	Hi-Vibration	N/A	✓	✓	✓
<b>-AC</b>	Hi-Accuracy	N/A	✓	N/A	N/A
<b>-PS</b>	Pointed Stem	✓	✓	✓	✓
<b>-TF</b>	Teflon Coating	✓	✓	✓	✓
<b>-SS</b>	316 SS stem	N/A	STD	✓	✓
<b>-NL</b>	No Logo	✓	✓	✓	✓
<b>-HT</b>	Heat Transfer Compound (2 oz)	✓	✓	✓	N/A
<b>-GL</b>	Plain Glass Lens	N/A	N/A	✓	✓
<b>-CL</b>	Custom Logo Dial	N/A	N/A	✓	✓
<b>-BP</b>	Replacement Battery Pack	N/A	N/A	✓	✓
<b>-WD</b>	White Dial	N/A	N/A	✓	✓
<b>-AS</b>	Allows to Fit 1-1/4-18 Industrial Thermowell	✓	✓	✓	N/A
<b>TAG OPTION</b>					
<b>-TS</b>	Stainless Steel Tag (1-10 Characters)			✓	
<b>-TM</b>	Stainless Steel Tag (11-80 Characters)			✓	
<b>-TP</b>	Paper Tag			✓	

✓	Indicates that the option is available with this model.
N/A	Indicates the option is not available with this model.
STD	Indicates standard options with no additional cost.