

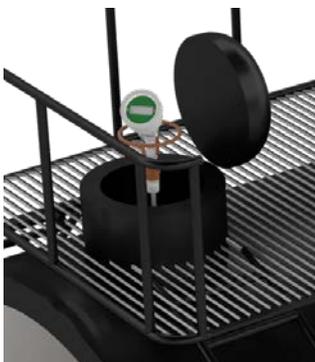
RAILCAR TEMPERATURE PROBES

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 RCPS	Digital RCDX	Multipoint RCMP	Hard Wired RCHW	Bimetal 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	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	Handheld Digital Thermometer (optional): Model THH800A	Dial
Stem Material	300 Series Stainless Steel	300 Series Stainless Steel	300 Series Stainless Steel	300 Stainless Steel	300 Stainless Steel



Temperature sensor attaches to railcar with a standard threaded connection.



Made in USA



FEATURES / BENEFITS

- Measure Material Temperature Upon Arrival, Handling, & Departure
- Long Stem to Reach Deep into Railcar
- 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: **RCDX0600S21**

RCDX

0600

S2

1



MODEL	STEM LENGTH "X"	PROCESS CONNECTION	TEMPERATURE RANGE			OPTIONS
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RCDX = Digital Rail Car Thermometer with Orange Handle, 3" Dial, Bottom Connecton, Blunt Tip, 3/8" Diameter Stem, 100Ω RTD

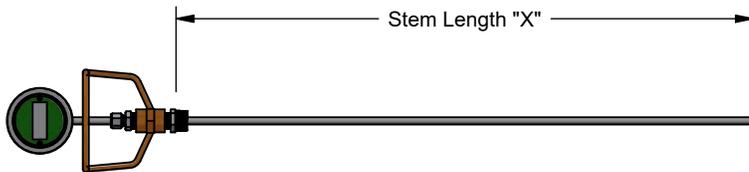
0360 = 36" Stem
0480 = 48" Stem
0600 = 60" Stem
0720 = 72" Stem
0840 = 84" Stem
0960 = 96" Stem
???? = Enter Stem Length in Inches (Example: 0840 equals 84 inches)

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

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

For additional options see page 152.



EH Explosion Proof Head Option



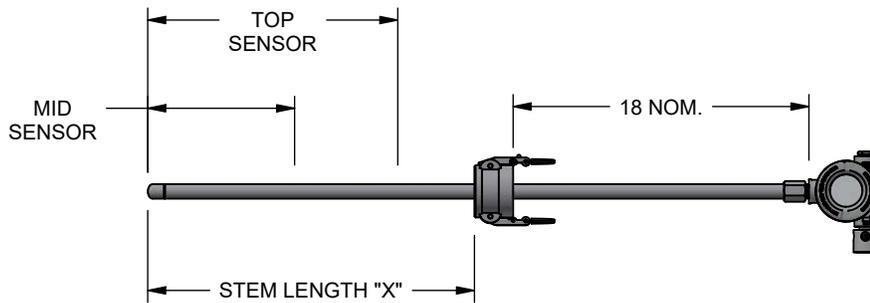
EH Head Approvals

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.

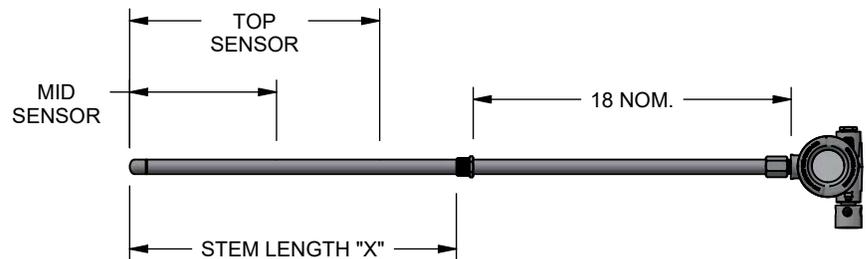
RAILCAR TEMPERATURE PROBES

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

MODEL	PROCESS CONNECTION	STEM LENGTH "X"	SENSOR MIDDLE POINT	SENSOR TOP POINT	OPTIONS
RCMP	1	0960	0360	0720	
RCMP = Multipoint with Explosion Proof Head and Multi-position switch, 100Ω RTD	3 = 3/4" NPT 1 = 1" NPT 1.5 = 1.5" NPT C2 = 2" Female Cam Lock CL = 2" Female Cam Lock with Self Locking	<i>180" Max Stem Length</i> 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 <i>For additional options see page 152.</i>
	<i>Note: Cam Lock is Welded 18" Below Head</i>				



Note: Third sensor is located at tip of probe.

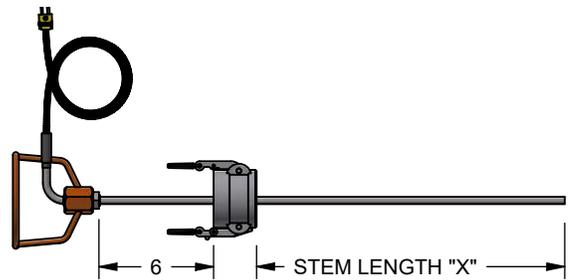
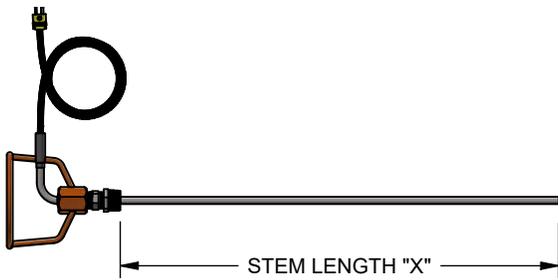


RAILCAR TEMPERATURE PROBES

BUILD YOUR HARD WIRED RAILCAR PROBE: Choose options to build a part number. For example: RCHW0960S40S21200SSO

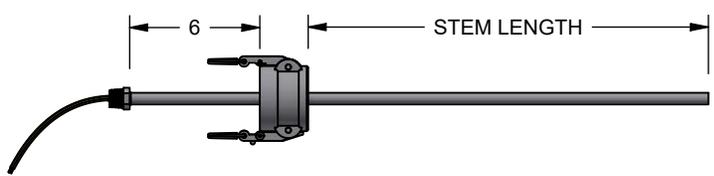
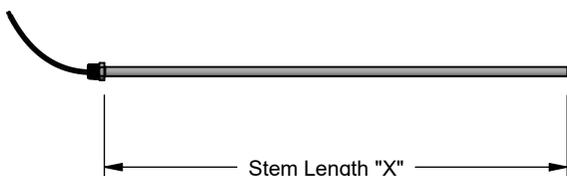
MODEL	STEM LENGTH "X"	STEM TYPE	PROCESS CONNECTION	LEADWIRE LENGTH	LEADWIRE TYPE	OPTIONS
RCHW	0600	S40	S2	1200	SSO	
RCHW = Hard-wired Rail Car Thermometer with Orange Handle, Blunt Tip, Type K Thermocouple with Mini Male Plug	0360 = 36" Stem 0480 = 48" Stem 0600 = 60" Stem 0720 = 72" Stem 0840 = 84" Stem 0960 = 96" Stem ????? = Enter Stem Length in Inches (Example: 0840 equals 84 inches)	50 = 1/4" Schedule 40 Pipe (Nominal 1/2" Diameter) 37 = 3/8" Diameter	S3 = 3/4" NPT S2 = 1/2" NPT C2 = 2" Female Cam Lock CL = 2" Female Cam Lock with Self Locking	1200 = 120" 1400 = 140" ????? = Enter Lead Wire in Inches (Example: 840 = 84")	SSO = Stainless Steel Overbraid (Most Durable and Flexible) SSA = Stainless Steel Armor	PS = Pointed Stem THH800A = Handheld Digital Display, Type K Jack

For additional options see page 152.



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

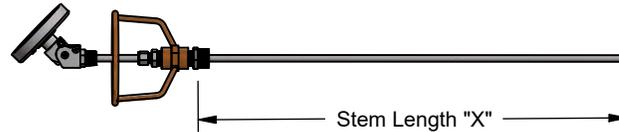
MODEL	PROCESS CONNECTION	STEM LENGTH "X"	STEM DIAMETER	SENSOR TYPE	OPTIONS
RCPS	3	0960	37	PX	
RCPS = Plain Stem Rail Car, Blunt Tip, 6" Lead Stripped	3 = 3/4" NPT 2 = 1/2" NPT C2 = 2" Female Cam Lock CL = 2" Female Cam Lock with Self Locking Note: Cam Lock is Welded 6" Below Threads	180" Max Stem Length 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 152.



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	
RCJJ = Rail Car Thermometer with orange handle, 5" Dial, adjustable angle connection, blunt tip, 3/8" diameter stem	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	<i>Fahrenheit Ranges</i> F23 = -40°F to 160°F F55 = 25°F to 125°F F43 = 0°F to 200°F F47 = 0°F to 250°F F63 = 50°F to 300°F F67 = 50°F to 500°F F69 = 50°F to 550°F F81 = 150°F to 750°F F85 = 200°F to 1000°F <i>Celsius Ranges</i> C23 = -40°C to 70°C C55 = 0°C to 50°C C43 = 0°C to 100°C C47 = -20°C to 120°C C59 = 0°C to 150°C C67 = 0°C to 250°C C69 = 0°C to 300°C C73 = 0°C to 400°C C85 = 100°C to 500°C	<i>Dual Scale Ranges</i> D23 = -40°F to 160°F & -40°C to 70°C D55 = 25°F to 125°F & -5°C to 50°C D43 = 0°F to 200°F & -10°C to 90°C D47 = 0°F to 250°F & -20°C to 120°C D63 = 50°F to 300°F & 10°C to 150°C D67 = 50°F to 500°F & 10°C to 260°C D69 = 50°F to 550°F & 10°C to 290°C D81 = 150°F to 750°F & 70°C to 400°C D85 = 200°F to 1000°F & 100°C to 500°C <i>Additional Ranges Available</i>	PS = Pointed Stem



RTD

THERMOCOUPLE & RTD OPTIONS

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