PALMER

Designed and Built in Asheville, North Carolina

Model 1050 Direct Drive Rigid Stem 5" Dial Thermometers with 1/2" NPT Fitting and 1/4" Diameter Stem

Palmer's experience in the thermometer field enables us to offer a line of filled system Dial Thermometers with uncompromising accuracy. Used in many different applications, including power plants, chemical processing plants, breweries, canneries and HVAC equipment, our Dial Thermometers are engineered to provide long service life with an extremely dependable thermal system.

Direct-Drive Double-Wound Bourdon Coil: With this construction, the pointer shaft operates directly from the center coil. This eliminates the conventional sector and pinion type movement and its multiplying mechanism which are subject to wear and tear and subsequent inaccuracies. This unique feature results in a temperature indicator that is extremely responsive to temperature changes and will maintain its accuracy for many years.

Stainless Steel Bezel Ring and Glass Cover: provides a weather-tight seal.

Easy to Read Dial: Every thermometer dial is constructed of heavy gauge aluminum with a low glare finish. High contrast black numerals, graduations, and pointer all contribute to minimize reading errors.

Liquid Actuated Systems: (Standard) These temperature systems are filled with a non-toxic, odorless, organic, and non-flammable liquid up to 500°F. It is non-hazardous, environmentally friendly with no hydrogens, and proven to be an excellent substitute for Mercury. (Mercury Actuated Systems are available). Palmer Model 1050 is a superior alternative to bimetallic thermometers.

Calibration: Tapered-tip Pointer can be adjusted for calibration.

Interchangeability: Model 1050 Dial Thermometers have a 1/4" stem with a 1/2" NPT Fitting and are interchangeable with a bimetal thermometer type thermowell with a .260" diameter bore.

Fully Adjustable All Angle Case: Model 1050 Series Dial Thermometers may be adjusted during installation and locked to provide the best reading angle. Optional Center Back Connection allows for the head to be rotated to adjust orientation after installation.

	Model 1050 Series Specifications				
Form:	Adjustable All Angle Case, Optional Center Back Connected Case				
Case:	Polished 316 Stainless Steel Case. 5" Dial (127 mm)				
Fill:	Liquid Actuated: < 500°F Mercury Actuated: > 500°F				
Dial Face:	Black Graduations and Numerals on White Background. Linear Scale with High-Visibility Tapered-Tip Black Pointer.				
Bezel/Lens:	Stainless Steel Bezel Ring and Glass Cover, Gasket Sealed Plexiglas - Optional				
Fitting:	1/2" NPT Fixed Thread Fitting, 304 Stainless Steel. Optional 7/8"-22 Swivel Nut Fitting available.				
Stem:	3/16" (4.8mm) Diameter Stem, 304 Stainless Steel				
Stem Lengths:	Standard Lengths from 4" (102 mm) to 24" (610 mm). Measure stem length from 1/2" up on threads to tip.				
Bulb:	.250" (6.4 mm) Diameter Bulb, 304 Stainless Steel				
System:	Case Compensated System with Double Wound Direct Drive Bourdon Coil.				
Accuracy:	± One Scale Division.				



Applications

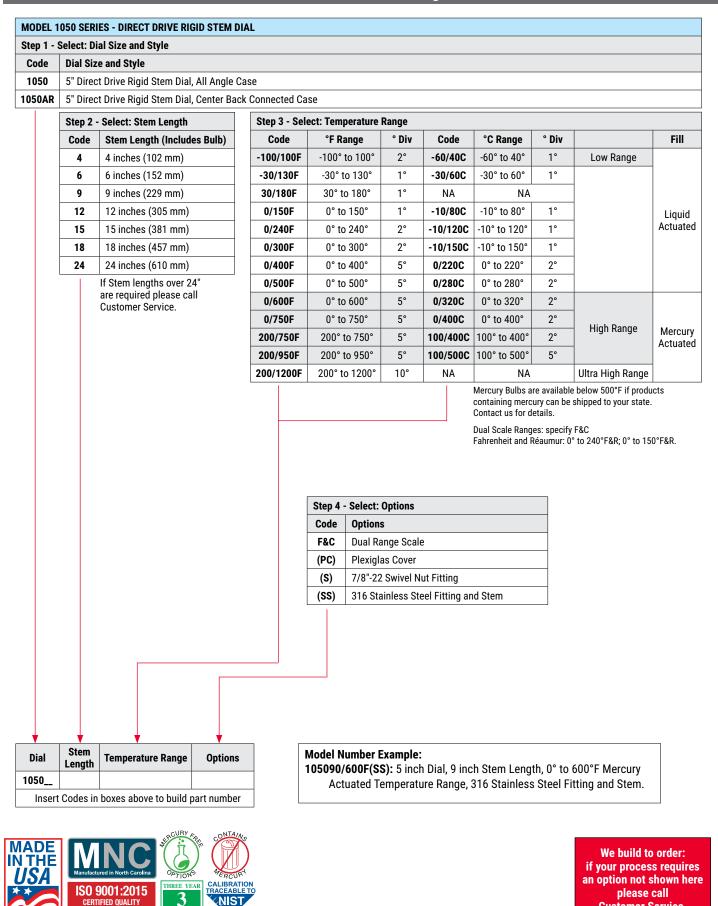
Chemical and Petrochemical Hazardous Environments Process Engineering Pulp and Paper Industry Water Treatment Systems

Pneumatics Compressor Controls Pump Protection Shipping



Specifications subject to change without notice.

Dial Model 1050 Series Ordering Guide

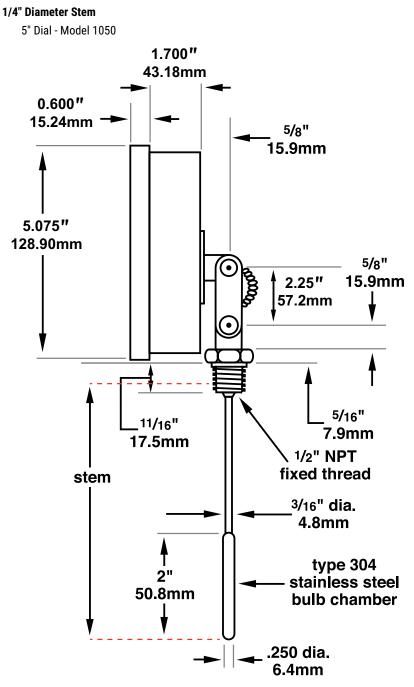


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Customer Service.

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January Palmer Wahl Instruments, Inc. • Toll Free: 800-421-2853 • Phone: 828-658-3131 • www.palmerwahl.com 2022 Adjustable All Angle Case Rigid Dial Thermometer with 1/2" NPT and



We build to order: if your process requires an option not shown here please call Customer Service.

Specifications subject to change without notice.

January 2022 To measure stem length measure from 1/2"

up on threads of fitting to tip of stem.



Connections and Thermowells for Rigid Dial Thermometer Bulbs

	RIGID STEM DIAL THERMOMETERS							
		Models 50A/50AL Model 1050			Model 950			
	Stem Diameter	5/8"	3/16"	3/16"	3/8"	3/8"		
	Bulb Diameter	7/16"	1/4"	1/4"	3/8"	3/8"		
	Probe Connection	1-1/4"-18 UNEF Swivel Nut	1/2" NPT Fixed Fitting	7/8"-22 Swivel Nut Fitting	1/2" NPT Adjustable Union	3/4" NPT Adjustable Union		
Open End	Standard Union Connection 3/4" NPT	1140-7	1120-7	1150-7	1120-7	NA		
	Standard Union Connection 1" NPT	1140-8	1120-8	1150-8	1120-8	NA		
	Extension Neck Lagging Union Connection 3/4" NPT	1141-7	1121-7	NA	1121-7	NA		
	Extension Neck Lagging Union Connection 1" NPT	1141-8	1121-8	NA	1121-8	NA		
	Surface Mount Flanged Union Connection	1140-9	1120-9	1150-9	1120-9	NA		
Closed	Standard Thermowell	1140 Series Thermowell	NA	CP-990-1 (3.5" Probe Length Only)	1130 Series Thermowell	NA		
	Extension Neck Lagging Ther- mowell	1141 Series Thermowell	NA	NA	1131 Series Thermowell	NA		
	Built-up Heavy Wall Thermowell	1144 Series Thermowell	NA	NA	NA	NA		
	Built-up Extension Neck Lagging Heavy Wall Thermowell	1145 Series Thermowell	NA	NA	NA	NA		
	Weld-in Thermowell	1146 Series Thermowell	NA	NA	1136 Series Thermowell	NA		
	Flanged Thermowell	1147 Series Thermowell	NA	NA	1137 Series Thermowell	NA		



Specifications subject to change without notice.