

AS5004PA67Z2C ← EXAMPLE OF MODEL NUMBER

PA	SENSING ELEMENT: SEE ELEMENT TABLE.
67	INSERTION DEPTH D IN .1" INCREMENTS (67 = 6.7"). MINIMUM D = 10 (1.0") [25]; [12] MAXIMUM D = 444 (44.4") [1128].

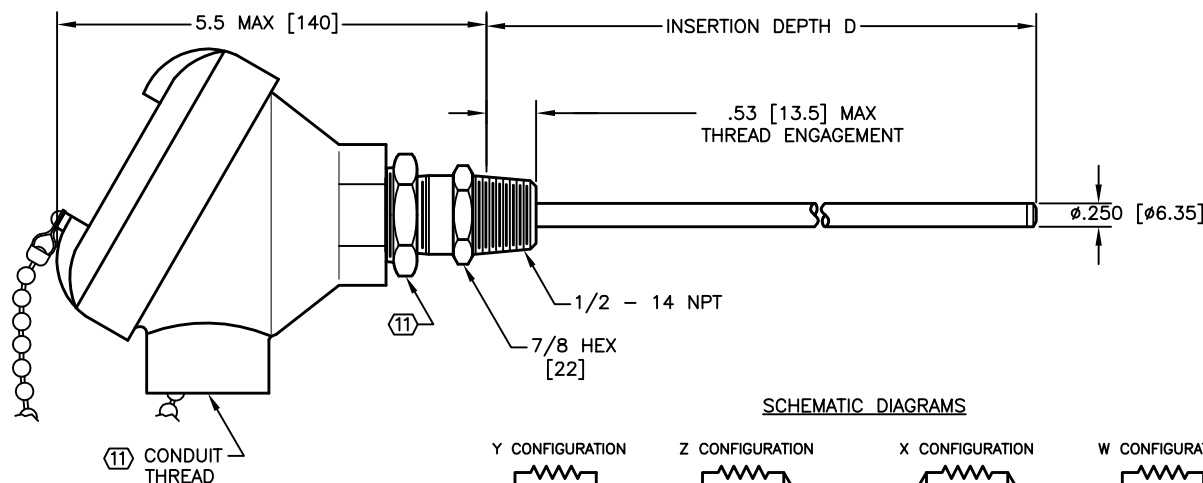
2 CONDUIT THREAD B:
1 = 1/2 - 14 NPT; (11)
2 = 3/4 - 14 NPT.

**TO ORDER ASSEMBLY WITHOUT TRANSMITTER, STOP HERE.
TO ORDER WITH TRANSMITTER (PLATINUM ELEMENT
REQUIRED). SEE SHEET 2 FOR ADDED INFORMATION.**

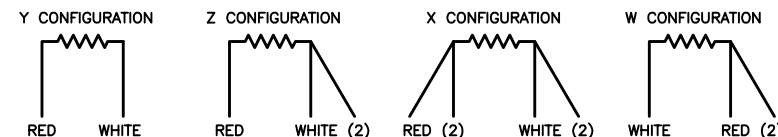
ELEMENT OPTIONS		ELEMENT RESISTANCE	AVAILABLE LEAD CONFIGURATION			
			Y	Z	X	W
CA	COPPER	10.00Ω ±20% (10.02/9.98) @25°C, 1.42743 TCR		●		
NA	NICKEL	120.00Ω ±50% (120.60/119.40) @0°C, 1.67196 TCR	●	●	●	
PA	PLATINUM	100.00Ω ±50% (100.50/99.50) @0°C, 1.39261 TCR	●	●	●	
PM		100.00Ω ±0.6% (100.06/99.94) @0°C, 1.38500 TCR (10)	●	●	●	●
PD		100.00Ω ±1.2% (100.12/99.88) @0°C, 1.38500 TCR (10)	●	●	●	●
PE		100.00Ω ±5% (100.50/99.50) @0°C, 1.38500 TCR	●	●		
PF		1000.00Ω ±1.2% (1001.20/998.80) @0°C, 1.38500 TCR (10)	●	●	●	



LABEL SAMPLE



SCHEMATIC DIAGRAMS



1. ELEMENT: SEE TABLE ABOVE FOR ELEMENT OPTIONS.
2. RESISTANCE: SEE TABLE ABOVE FOR RESISTANCE OPTIONS.
3. RESISTANCE-TEMPERATURE COEFFICIENT: SEE SENSING ELEMENT IN TABLE ABOVE (NOMINAL FROM 0°C TO 100°C).
4. TEMPERATURE LIMITS:
 PROBE: -50°C TO 260°C (-58°F TO 500°F); TERMINAL BLOCK FOR ALUMINUM AND STAINLESS STEEL CONNECTION HEADS: -50°C TO 121°C (-58°F TO 250°F).
5. INSULATION RESISTANCE: 1000 MEGOHMS MINIMUM AT 500 VOLTS DC, LEADS TO CASE.
6. LEADS: AWG #22, STRANDED, TFE INSULATED. LEAD LENGTH = 4.0 [102] MIN INSIDE CONNECTION HEAD.
7. PROBE CASE: STAINLESS STEEL, COPPER ALLOY TIP.
8. CONNECTIONS (MODELS WITHOUT TRANSMITTER): TERMINAL BOARD FOR WIRES TO AWG #14 [2.08].
9. SEE MINCO SPI 00-0252 FOR ASSEMBLY INSTALLATION INSTRUCTIONS.
- ⑩ THE PD & PM ELEMENT RESISTANCE THERMOMETERS WILL MEET THE RESISTANCE-TEMPERATURE RELATIONSHIP AND TOLERANCES SPECIFIED IN EN 60751 (IEC 751); PD = CLASS B, AND PM = CLASS A.
- ⑪ A STAINLESS STEEL REDUCER BUSHING MAY BE USED TO ACHIEVE NEEDED THREAD SIZE.
- ⑫ FOR OPTIMAL PERFORMANCE, SUGGESTED MINIMUM INSERTION DEPTH D IS 17 (1.7") [43].

UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES IN INCHES DIMENSIONS IN [] ARE IN MILLIMETERS ONE PLACE (.0) ±.020 [±0.51] TWO PLACE (.00) ±.010 [±0.25] THREE PLACE (.000) ±.005 [±0.13] ANGLES:	INITIALS	DATE	ITEM	REQD	INVENTORY NO	MATERIAL DESCRIPTION						
	DR WAB	05-27-03	TITLE: RESISTANCE THERMOMETER ASSEMBLY TIP-SENSITIVE, SPRING-LOADED SINGLE ELEMENT RTD, AS5004 SERIES				 www.minco.com COMPANY CONFIDENTIAL PROPRIETARY INFORMATION OF MINCO PRODUCTS, INC. DO NOT DUPLICATE					
	CHK DES	08-21-03										
	APP											
ENGR DLW	08-21-03	AS5004					REV I					
QA												
PRD												
FINISH:	NEXT ASSY	PROD CODE 445	INVENTORY NO				SCALE NONE	DWG SIZE B	 	CAGE IDENT. 09.359	SHEET 1 OF 2	
	USED ON	INIT. ORDER										

TO ORDER WITH TRANSMITTERS LISTED BELOW. ADD TRANSMITTER MODEL, TEMPERATURE CODE, AND CALIBRATION TO END OF PART NUMBER AS SHOWN BELOW.

AS5004PA67Z2C508A1 ← EXAMPLE OF MODEL NUMBER

AS5004 BASE MODEL NUMBER:
PA SENSING ELEMENT:
67 INSERTION DEPTH IN INCHES.
Z NUMBER OF LEADS:
2 CONDUIT THREAD:
C CONNECTION HEAD:

508 TRANSMITTER MODEL:

111 = TT111: FIXED RANGE (2-LEAD MODELS);
211 = TT211: FIXED RANGE (2-LEAD MODELS);
508 = TT508: PROGRAMMABLE (2 & 3-LEAD MODELS);
510 = TT510: PROGRAMMABLE (2, 3, & 4-LEAD MODELS);
511 = TT511: HART PROGRAMMABLE (2, 3, & 4-LEAD MODELS).

A TEMPERATURE CODING:

A = 20 TO 120°F (-6.7 TO 48.9°C).
(CONTACT FACTORY FOR COMPLETE LIST OF AVAILABLE TEMPERATURE CODES).

1 CALIBRATION:

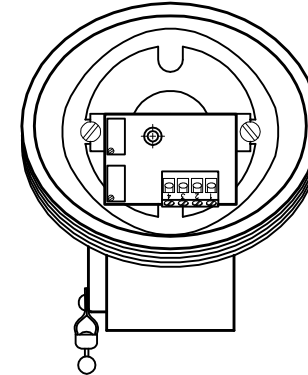
1 = NOMINAL CALIBRATION;
2 = MATCH CALIBRATED, 0.75% TOTAL SYSTEM ACCURACY;
3 = MATCH CALIBRATED, 0.5% TOTAL SYSTEM ACCURACY;
(NOT AVAILABLE WITH TT211).
4 = MATCH CALIBRATED, 0.2% TOTAL SYSTEM ACCURACY;
(NOT AVAILABLE WITH TT211).

CONTACT FACTORY FOR OTHER CALIBRATION OPTIONS.

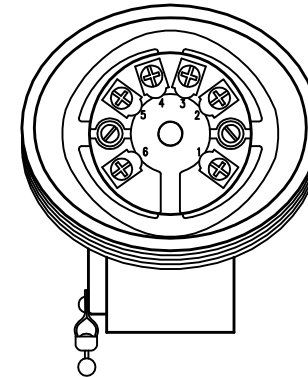
REVISIONS

REV	DESCRIPTION	DATE	ECO	DR	APPD
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EXAMPLES OF TRANSMITTER MOUNTING CONFIGURATIONS



RECTANGULAR TRANSMITTER



ROUND TRANSMITTERS

1. SEE CATALOG FOR PARTICULAR TRANSMITTER TEMPERATURE RATING AND CONFIGURATION.

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MATERIAL:	DR	WAB	07-18-16	TITLE: ASSEMBLY WITH TRANSMITTER			 www.minco.com COMPANY CONFIDENTIAL PROPRIETARY INFORMATION OF MINCO PRODUCTS, INC. DO NOT DUPLICATE	
	CHK	DES	11-22-16					
	APP							
	ENGR	KGH	11-22-16					
FINISH:	QA			PROD. CODE 445			AS5004	
	PRD							
	NEXT ASSY							
	USED ON	INIT. ORDER						
		INVENTORY NO	SCALE	NONE	DWG SIZE	B	CAGE IDENT. 09359	SHEET 2 OF 2