RTDW Series

Precision Wirewound Temperature Sensors



- Resistance Tolerances to ±1%
- Temperature Coefficients to ±6000 ppm/°C
- Flame & Moisture Resistant Protective Encapsulation
 - All Welded Construction

SPECIFICATIONS

0. 20. 10. 10.10						
RTDW1 ¹		RTDW3 ¹		RTDW2 ¹		
Diameter:	0.125 ±0.005 [3.2 ±0.13]	0.250 ±0.005 [6.4 ±0.13]	Width:		0.140 ±0.01 [3.6 ±0.25]	
	[0.2 20.10]	[0.4 20.10]	Height:		0.250 ±0.025 [6.4 ±0.64]	
Length:	0.260 ±0.025 [6.6 ±0.64]	0.375±0.025 [9.5 ±0.64]	Length:		0.270 ±0.01 [6.9 ±0.25]	
Lead diameter ² :	0.020 [0.5] 0.025 [0.6]	0.032 [0.8] 0.025 [0.6]	Lead Diameter:		0.032 [0.8]	
			Lead Spacing		0.125 [3.2]	
Common Temperature Sensing Alloys		Alloy	TCR ±30 (0°C - 100°C, 2		Ordering Code	
		Nickel 99.9% Balco Copper Platinum Rediseal Stainless Steel	+60 +45 +39 +38 +35	500 900 850 500	N B C P R S	
Standard Resistance Values		100Ω, 500Ω, 1KΩ (referenced at 25°C, others on request) ³				
Temperature Range		0°C to +100°C				
Recommended Measurement Current		100 Ω - 1mA to 7mA 500 Ω - 0.7mA to 3mA 1K Ω - 0.1mA to 1mA				
Response Time (approximate) 100°C / 25°C, still air, 50%, 90%		t _{0.5} =40 seconds		t _{0.9} =100 seconds		
Stability		< 100ppm / year				
Terminations		100% Matte Tin Plating over Copper				
Processing		Meets the soldering requirements of MIL-STD-202, Method 208.				
Operating Conditions		RTDW series temperature sensors may not be used in unprotected moist environments or in aggressive atmospheres. User should verify suitablility on a case by case basis.				

¹Other sizes available, please consult factory for additional information | ²Where more than one lead is listed / the top value is Standard, Lead Length = 1.00 [24.5] Min. ³May not apply for all wire types. Higher and lower values may be available. Please consult factory for additional information.

Ordering Information

Part Description:

RTDW 1 2 3 Size

N (6000) B (4500) C (3900) P (3850) R (3500) S (1100) 100 500 1K Resistance 1% 5%

Example: RTDW1N 1K 1%

Last digit of formal part number is reserved for internal use

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Code