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					
RTDW1 ¹		RTDW3 ¹		RTDW2 ¹	
Diameter:	0.125 ±0.005 [3.2 ±0.13]	0.250 ±0.005 [6.4 ±0.13]	Widt	th: 0.140 ±0.01 [3.6 ±0.25]	
			Heig	ght: 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]	Leng	th:	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 Sp	ucing 0.125 [3.2]	
		Alloy	TCR ±30 (0°C - 100°C, 2	0ppm/°C 25°C reference)	Ordering Code
Common Ten	nperature Sensing Alloys	Alloy Nickel 99.9% Balco Copper Platinum Rediseal Stainless Steel	(0°C - 100°C, 2 +60 +44 +33 +33 +33	00ppm/°C 25°C reference) 000 500 900 850 500 100	Ordering Code N B C P R S
	nperature Sensing Alloys d Resistance Values	Nickel 99.9% Balco Copper Platinum Rediseal Stainless Steel	(0°C - 100°C, 2 +60 +44 +33 +33 +33 +33 +1	25°C reference) 000 500 900 850 500	N B C P R S
Standard		Nickel 99.9% Balco Copper Platinum Rediseal Stainless Steel	(0°C - 100°C, 2 +6(+44 +33 +33 +33 +33 +11 ΙΚΩ (reference	25°C reference) 000 500 900 850 500 100	N B C P R S
Standard Tem	d Resistance Values	Nickel 99.9% Balco Copper Platinum Rediseal Stainless Steel 100Ω, 500Ω, 7	(0°C - 100°C, 2 +6(+44 +33 +34 +34 +11 ΙΚΩ (reference 0°C to	25°C reference) 000 500 900 850 500 100 d at 25°C, other +100°C	N B C P R S
Standard Tem R Meas Response	d Resistance Values nperature Range ecommended	Nickel 99.9% Balco Copper Platinum Rediseal Stainless Steel 100Ω, 500Ω, 7	(0°C - 100°C, 2 +6(+44) +33 +33 +33 +33 +11 ΙΚΩ (reference 0°C to nA 500Ω - 0.71	25°C reference) 000 500 900 850 500 100 d at 25°C, other +100°C mA to 3mA 1K	N B C P R S s
Standard Tem R Meas Respons 100°C / 2	d Resistance Values aperature Range ecommended surement Current e Time (approximate) 25°C, still air, 50%, 90% Stability	Nickel 99.9% Balco Copper Platinum Rediseal Stainless Steel 100Ω, 500Ω, ⁻ 100Ω - 1mA to 7n t _{0.5} =40 seconds	(0°C - 100°C, 2 +6(+4; +3; +3; +3; +1 ΙΚΩ (reference 0°C to nA 500Ω - 0.7(- 0.7)	25°C reference) 000 500 900 850 500 100 d at 25°C, other +100°C mA to 3mA 1K t t t m / year	N B C P R S s s on request) ³ Ω - 0.1mA to 1mA 9=100 seconds
Standard Tem R Meas Response 100°C / 2	d Resistance Values perature Range ecommended surement Current e Time (approximate) 25°C, still air, 50%, 90% Stability Terminations	Nickel 99.9% Balco Copper Platinum Rediseal Stainless Steel 100Ω, 500Ω, 7 100Ω - 1mA to 7m t _{0.5} =40 seconds	(0°C - 100°C, 2 +6(+4; +3; +3; +1; ΙΚΩ (reference 0°C to DA 500Ω - 0.7; < 100pp 0% Matte Tin P	25°C reference) 000 500 900 850 500 100 d at 25°C, other +100°C mA to 3mA 1K to m / year lating over Cop	N B C P R S s rs on request) ³ Ω - 0.1mA to 1mA _{0.9} =100 seconds
Standard Tem R Meas Response 100°C / 2	d Resistance Values aperature Range ecommended surement Current e Time (approximate) 25°C, still air, 50%, 90% Stability	Nickel 99.9% Balco Copper Platinum Rediseal Stainless Steel 100Ω, 500Ω, ⁻ 100Ω - 1mA to 7n t _{0.5} =40 seconds	(0°C - 100°C, 2 +6(+4; +3; +3; +1; ΙΚΩ (reference 0°C to DA 500Ω - 0.7; < 100pp 0% Matte Tin P	25°C reference) 000 500 900 850 500 100 d at 25°C, other +100°C mA to 3mA 1K to m / year lating over Cop	N B C P R S s rs on request) ³ Ω - 0.1mA to 1mA _{0.9} =100 seconds
Standard Tem R Meas Response 100°C / 2	d Resistance Values perature Range ecommended surement Current e Time (approximate) 25°C, still air, 50%, 90% Stability Terminations	Nickel 99.9% Balco Copper Platinum Rediseal Stainless Steel 100Ω, 500Ω, ² 100Ω - 1mA to 7n t _{0.5} =40 seconds	(0°C - 100°C, 2 +6(+4; +3; +3; +3; +1 ΙΚΩ (reference 0°C to DA 500Ω - 0.7) < 100pp 0% Matte Tin P ing requiremen	25°C reference) 000 500 900 850 500 100 d at 25°C, other +100°C mA to 3mA 1K m / year lating over Cop ts of MIL-STD-2	N B C P R S s on request) ³ Ω - 0.1mA to 1mA

Other 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.

