Embedment RTDs

Element	TCR Ω/Ω/°C	Case styl Case L: 0.250 Case Ø: 0.275)" (6.4 mm)	Case styl Case L: 0.250 Case Ø: 0.188 Flange Ø: 0.2	" (6.4 mm) 3" (4.8 mm)	Case styl Case L: 0.300 Case Ø: 0.125	" (7.6 mm)	Case style D Case L: 0.300" (7.6 mm) Case Ø: 0.080" (2.0 mm	
		Single	Dual	Single	Dual	Single	Dual	Single	Dual
Platinum, 100 Ω ±0.36% at 0°C	.00392	S325PA, S11636PA*	S4026PA	S331PA	S7792PA	S341PA	S14320PA	S12414PA	
Platinum, 100 Ω ±0.12% at 0°C (Meets EN60751, Class B)	.00385	S304PD	S309PD	\$306PD	S14405PD	S308PD	S14455PD	S13282PD	
Platinum, 100 Ω ±0.36% at 0°C	.00385	S7304PE	S305PE	S7746PE	S307PE	S7908PE	S14456PE	S13282PE	
Platinum, 1000 Ω ±0.12% at 0°C	.00385	S101907PF	S101911PF	S101908PF	S101912PF	S101909PF	S101913PF	S101910PF	
Copper, 10 Ω ±0.2% at 25°C	.00427	S324CA	S4026CA	S332CA		S342CA			
Nickel, 120 Ω ±0.5% at 0°C	.00672	S326NA, S11636NA*	S4026NA	\$330NA	S7792NA	S340NA			

*MIL-T-24388C qualified models

Overview

Install miniature sensors in or beneath the babbitt layer of bearing shoes. They monitor metal temperature — the most reliable indicator of bearing condition — to give early warning of oil film breakdown. Machines can then be shut down and the problem corrected before catastrophic failure occurs.

While no larger than many bare ceramic elements, these RTDs have metal cases and insulated leads to withstand rough handling and harsh environments. They are easy to install in drilled holes for general purpose sensing.

Specifications

Temperature range: -50 to 260°C (-58 to 500°F).

Case: Tin plated copper alloy. Models S12414, S13282 and S101910: Stainless steel.

Babbitt tip: Factory applied babbitt tip, available on case style A or B, reduces the danger of overheating the sensor when installed in babbitt layer.

Leads: Stranded copper with PTFE insulation; stainless steel overbraid optional (one sleeve covers all leads). Polyimide insulation available on selected models (See specification and order options).

Time constant: 3.0 seconds
(case style A) to 1.5 seconds
(case style D), typical value
in moving water.

Leadwire size (AWG):

	Number of leads						
style	2	3	4	6			
А	24	24	24	24			
В	24	24	28	28			
С	24	26	30	30			
D	30	30	34				

Insulation resistance: 10 megohms min. at 100 VDC, leads to case.

***MIL-T-24388C qualified models:** PRT-EM-E2: Order S11636PA3K36B1. NRT-EM-E1: Order S11636NA3K36B1.

Specifications subject to change

STOP OIL SEEPAGE!

Specification and order options

S331PA	Model number from table						
3	Number of leads per sensing element (2, 3, or 4): CA or PD elements not available with 2 leads. 4 leads available on single elements and \$14405 only.						
S	 Covering over leadwires: T = PTFE insulated leads only S = Stainless steel overbraid with PTFE insulated leads F = FEP over PTFE insulated leads R = FEP over stainless steel braid and PTFE insulated leads. E = FEP over stainless steel braid, with elastomer fill and PTFE insulated leads. (max fill length 144") S11636 Covering options only: K = Polyimide insulated leads. S = Stainless steel overbraid with PTFE insulated leads. 						
36	Lead length in inches						
(Stop here	e for case style C or D; no installation variable)						
AC1	Optional Installation/Accessory option:B0 =No babbitt metal or accessoriesB1 =Babbitt metal appliedAC1 =Supplied with AC171 spring and AC172 series ring (case style B only)AC2 =Supplied with AC171 spring and AC1038 ring (case style B only)AC3 =Supplied with AC171 spring and AC915-1 ring (case style B only)						
S331PA3S	S331PA3S36AC1 = Sample part number						

Specify and order products at: www.minco.com/sensors_config

	STOCKED	PARTS							
	se Sensing yle Elemen	Single or Dual	TCR (Ω/Ω/° C)	# of	Lead Size (AWG)	Lead Covering	Lead	Optional Babbitt tip	Stock Part #
A	NA	t Elements Single	0.00672	Leaus 3	(AWG)	Polyimide	Length 36		S11636NA3K36
A	PA	Single	0.00392	3	24	Polyimide	36		S11636PA3K36
A	PA	~			24	/	30 36		S11636PA3K366 S325PA3S36B0
		Single	0.00392	3		Stainless Steel Overbraid			
A	PA	Single	0.00392	3	24	PTFE Chainless Charle Quarks with	36		S325PA3T36B0
A	PA	Single	0.00392	3	24	Stainless Steel Overbraid	72		S325PA3S72B0
A	PA	Single	0.00392	3	24	PTFE Chainless Chanles and Chanles	72		S325PA3T72B0
A	PA	Single	0.00392	3	24	Stainless Steel Overbraid	144		S325PA3S144B
A	PA	Single	0.00392	3	24	PTFE Chainless Chanles and Chanles	144		S325PA3T144B
A	PD	Single	0.00385	3	24	Stainless Steel Overbraid	36		S304PD3S36B0
A	PD	Single	0.00385	3	24	PTFE Chainless Chanles and Chanles	36		S304PD3T36B0
A	PD	Single	0.00385	3	24	Stainless Steel Overbraid	72		S304PD3S72B0
A	PD	Single	0.00385	3	24	PTFE	72		S304PD3T72B0
A	PD	Single	0.00385	3	24	Stainless Steel Overbraid	144		S304PD3S144B
A	PD	Single	0.00385	3	24	PTFE	144		S304PD3T144B
A	PD	Dual	0.00385	3	24	Stainless Steel Overbraid	36		S309PD3S36B0
А	PD	Dual	0.00385	3	24	Stainless Steel Overbraid	72		S309PD3S72B0
А	PD	Dual	0.00385	3	24	Stainless Steel Overbraid	144		S309PD3S144B
В	PA	Single	0.00392	3	24	PTFE	36		S331PA3T36B0
В	PA	Single	0.00392	3	24	Stainless Steel Overbraid	36		S331PA3S36B0
В	PA	Single	0.00392	3	24	Stainless Steel Overbraid	72		S331PA3S72B0
В	PA	Single	0.00392	3	24	PTFE	72		S331PA3T72B0
В	PA	Single	0.00392	3	24	PTFE	144		S331PA3T144B
В	PA	Single	0.00392	3	24	Stainless Steel Overbraid	144		S331PA3S144B
В	PD	Single	0.00385	3	24	Stainless Steel Overbraid	36		S306PD3S36B0
В	PD	Single	0.00385	3	24	PTFE	36	No	S306PD3T36B0
В	PD	Single	0.00385	3	24	Stainless Steel Overbraid	72		S306PD3S72B0
В	PD	Single	0.00385	3	24	PTFE	72		S306PD3T72B0
В	PD	Single	0.00385	3	24	Stainless Steel Overbraid	144	No	S306PD3S144E
В	PD	Single	0.00385	3	24	PTFE	144		S306PD3T144E
В	PD	Dual	0.00385	3	24	Stainless Steel Overbraid	36	No	S14405PD3S36
В	PD	Dual	0.00385	3	24	Stainless Steel Overbraid	72	No	S14405PD3S72
В	PD	Dual	0.00385	3	24	Stainless Steel Overbraid	144	No	S14405PD3S14
В	PD	Dual	0.00385	3	24	Stainless Steel Overbraid	144	n/a	S14455PD3S14
С	PA	Single	0.00392	3	26	PTFE	36		S341PA3T36
С	PA	Single	0.00392	3	26	Stainless Steel Overbraid	36		S341PA3S36
С	PA	Single	0.00392	3	26	Stainless Steel Overbraid	72	n/a	S341PA3S72
С	PA	Single	0.00392	3	26	PTFE	72	n/a	S341PA3T72
С	PA	Single	0.00392	3	26	Stainless Steel Overbraid	144	n/a	S341PA3S144
С	PA	Single	0.00392	3	26	PTFE	144	n/a	S341PA3T144
С	PD	Single	0.00385	3	26	PTFE	36	n/a	S308PD3T36
С	PD	Single	0.00385	3	26	Stainless Steel Overbraid	36	n/a	S308PD3S36
С	PD	Single	0.00385		26	Stainless Steel Overbraid	72	n/a	S308PD3S72
С	PD	Single	0.00385	3	26	PTFE	72	n/a	S308PD3T72
С	PD	Single	0.00385	3	26	Stainless Steel Overbraid	144		S308PD3S144
С	PD	Single	0.00385	3	26	PTFE	144	n/a	S308PD3T144
С	PD	Dual	0.00385	3	26	Stainless Steel Overbraid	36		S14455PD3S36
С	PD	Dual	0.00385	3	26	Stainless Steel Overbraid	72		S14455PD3S72
D	PA	Single	0.00392		30	PTFE	36		S12414PA3T36
D	PA	Single	0.00392	3	30	Stainless Steel Overbraid	36		S12414PA3S36
D	PA	Single	0.00392		30	Stainless Steel Overbraid	72		S12414PA3S72
D	PA	Single	0.00392	3	30	PTFE	72		S12414PA3T72
D	PA	Single	0.00392	3	30	Stainless Steel Overbraid	144		S12414PA3S14
D	PA	Single	0.00392		30	PTFE	144		S12414PA3T14
D	PD	Single	0.00385	3	30	PTFE	36		S13282PD3T36
D	PD	Single	0.00385	3	30	Stainless Steel Overbraid	36		S13282PD3S36
D	PD	Single	0.00385	3	30	PTFE	72		S13282PD3T72
D	PD	Single	0.00385	3	30	Stainless Steel Overbraid	72		S13282PD3S72
D	PD	Single	0.00385	3	30	PTFE	144		S13282PD3372
D	PD	Single	0.00385	3	30	Stainless Steel Overbraid	144		S13282PD3S14
		pieces or contact M				stanness steer overbraid	177	11/ U	5152021 0551

