

150 °C series Platinum sensor with wires For low temperatures

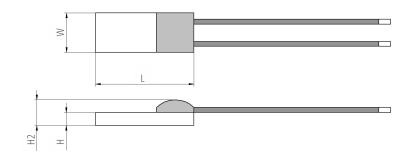


Benefits & Characteristics

- Excellent long-term stability
- Low self-heating
- Long isolated wires

- Fast response time
- Metalized backside available
- Customer specific sensor available upon request

Illustration¹⁾



1) For actual size, see dimensions

Technical Data

Operating temperature range:	-50 °C to +150 °C							
Nominal resistance:*	100 Ω at 0 °C							
	500 Ω at 0 °C							
	1000 Ω at 0 °C							
Characteristics curve:*	3850 ppm/K							
Long-term stability:	< 0.04 % at 1000 h at maximal operating temper	ature						
Tolerance class (dependent on temperature range):*	IST AG referen	се						
	IEC 60751 F0.15 A							
	IEC 60751 F0.3 B							
	IEC 60751 F0.6 C							
	IEC 60751 F0.1 Y							
Connection:*	Enameled Cu wire, Ø 0.2 mm							
Alternative wire construction:*	Inverted wires							
	Extended wires							
Recommended applied current:1)	1 mA at 100 Ω							
¹⁾ Self-heating must be considered	0.5 mA at 500 Ω							
	0.3 mA at 1000 Ω							
Other alternatives:*	Metalized backside							
	Housed in round ceramics (for dry environments only)							
	Grouped and paired							
	Substrate thickness							

* Customer specific alternatives available



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Size	Dimensions (L x W x H / H2 in mm) L \pm 0.2 mm, W \pm 0.2 mm, H \pm 0.1 mm, H2 \pm 0.3 mm	F0.1 (class Y)	F0.15 (class A)	F0.3 (class B)		
Nominal resis	stance: 100 Ω at 0 °C					
161 Order code	1.6 x 1.2 x 0.25 / 0.6	Upon request	Upon request	POK1.161.1E.B.065 010.00693		
308 Order code	3 x 0.8 x 0.25 / 0.6	Upon request	Upon request	POK1.308.1E.B.100 010.01672		
With metalize	ed backside					
232 Order code	2.3 x 2 x 0.65 / 1.3			POK1.232.1E.B.015.№ 010.02444		
Nominal resis	stance: 1000 Ω at 0 °C					
161 Order code	1.6 x 1.2 x 0.25 / 0.6	Upon request	P1K0.161.1E.A.040 010.01732	P1K0.161.1E.B.020 010.02327		
308 Order code	3 x 0.8 x 0.25 / 0.6	Upon request	Upon request	P1K0.308.1E.B.050 010.01189		
Additiona	l Documents					

Application Note:

Document name: ATP_E



Order Information Platinum Sensor Secondary reference



	TC		Pt 38	350	ррі	m/K	G	=	=	Pt 3	911	ppm/	K									
	U	=	Pt 37	'50	ррі	m/K	W	=	=	Pt 3	850	ppm/	K (e	xtend	ded o	pera	ting	tempe	rature	e rang	e in class	; A)
		Res	istanc	e in	n Ω	at 0	°C															
			Size	e in	mr	n																
					One	orati	ng ter	nner	atu	ro ra	ande											
							-				-	6	=	-200) °C ·	to +6	00 °	°C				
					2	= -	50 °C	to ·	+20	0 °C	2	7	=	-200) °C ·	to +7	′50 °	°C				
					3	= -	200 °	'C to) +3	00 °	°C	8		-200) °C ·	to +8	50 °	°C				
				4	4	= -	200 °	'C to	+4	00 °	°C	10	=	-70	°C to	+10	° 00	°C				
							Con	nect	ion													
							S		SIL	-				FK	=	flat	wire	custon	ner sp	pecific		
							I	=	ins	ulat	ted v	vire		SW				icular v				
							К				ner s	pecifi	С	L	=	insu	late	strande	ed wii	re		
							W		wi					E	=	enar	nele	d Cu w	/ire			
							FW	=	fla	t wi	re											
								Т	oler	anc	e cla	SS										
								A				50751	I FO	.15		К	=	custo	mer s	pecific		
								B	3	=	IEC	60751	I FO	.3		Ρ	=	pair				
								C	_	=	IEC	60751	I FO	.6		G	=	group				
								Υ		=	IEC	5075´	I FO	.1								
										Wi	ire le	ngth	in m	۱m								
												ngen										
											Sp	pecial										
											Т										metallized	
											D						ss 0.	38 mm			nverted v	veldir
											R W			und h tered		-			S	= 5	special	
											V	=	2111	lereu	r pov	vuer						
Р	Ok	(1. 2	232.	1		E		B.	01	5. I	M											



All mechanical dimensions are valid at 25 °C ambient temperature, if not differently indicated • All data except the mechanical dimensions only have information purposes and are not to be understood as assured characteristics • Technical changes without previous announcement as well as mistakes reserved • The information on this data sheet was examined carefully and will be accepted as correct; No liability in case of mistakes • Load with extreme values during a longer period can affect the reliability • The material contained herein may not be reproduced, adapted, merged, translated, stored, or used without the prior written consent of the copyright owner • Typing errors and mistakes reserved • Product specifications are subject to change without notice • All rights reserved

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