



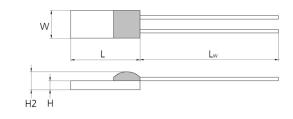
750 °C Series Platinum sensor with wires For very high temperatures

Benefits & Characteristics

- Excellent long-term stability
- Low self-heating
- Fast response time

- Vibration and temperature shock resistant
- Simple interchangeability
- Customer-specific sensor available upon request

Illustration¹⁾



1) For actual size, see dimensions

Technical Data

Operating temperature range:	-200 °C to +750 °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 oper	ating temperature					
Tolerance class (dependent on temperature range):*		IST AG reference					
	IEC 60751 F0.15	А					
	IEC 60751 F0.3	В					
	IEC 60751 F0.6	С					
	IEC 60751 F0.1	Y					
Connection:*	Pt-wire, Ø 0.2 mm (solderable, welda brazeable)	ble, crimpable,					
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:*	Grouped and paired						
	Substrate thickness						

* Customer-specific alternatives available



physical. chemical. biological.



Size	Dimensions (L x W x H / H2 in mm) L ±0.2 mm, W ±0.2 mm, H ±0.1 mm, H2 ±0.3 mm	F0.1 (class Y)	F0.15 (class A)	F0.3 (class B)
Nominal r	esistance: 100 Ω at 0 °C			
516 Order code		Upon request	P0K1.516.7W.A.007 100425	POK1.516.7W.B.007 100424
Fromer ord	ler code		010.00644	010.00643
102 Order code Former ord		Upon request	POK1.102.7W.A.010 150013 <i>010.0015</i> 6	POK1.102.7W.B.010 100203 <i>010.00155</i>
Nominal r	esistance: 500 Ω at 0 °C			
516 Order code Former ord		Upon request	Upon request	P0K5.516.7W.B.007 Upon request 010.01660
Nominal r	esistance: 1000 Ω at 0 °C			
216 Order code Former ord		Upon request	Upon request	P1K0.216.7W.B.010 104051 <i>310.00158</i>
516 Order code <i>Former ord</i>	•	P1K0.516.7W.Y.010 100726 <i>010.01683</i>	P1K0.516.7W.A.010 100572 <i>010.01073</i>	P1K0.516.7W.B.010 100571 <i>010.01072</i>
520 Order code <i>Former ord</i>		Upon request	P1K0.520.7W.A.010 100512 <i>010.00953</i>	P1K0.520.7W.B.010 100288 <i>010.00283</i>
102 Order code Former ord		Upon request	Upon request	P1K0.102.7W.B.010 Upon request <i>010.00319</i>

Additional Documents

	Document name:
Application Note:	ATP_E



physical. chemical. biological.



Order Information Platinum Sensor Secondary reference

=	Pla	atinu	m																							
	TC																									
		=								Pt																
	U	=	Pt :	3750) bb	om/K		W	=	Pt	385	50 pp	om/l	K (e	xtenc	led (opera	iting	tem	perat	ure	e rar	nge	in cla	ss A)	
		Res	ista	nce i	in Ω	2 at () °C																			
			S	ize ir	n m	m																				
					Op	erat	ing t	emp	oera	ature	ran	ge														
					1	=	-50	°C t	0+	150	°C	6		=	-200) °C	to +6	500 °	°C							
					2	=	-50	°C t	:0 +	200	°C	7		=	-200	°C	to +7	′50 °	°C							
					3					+300							to +8									
					4	=	-200) °C	to	+400) °C	1	0	=	-70	°C to	o +10	000 °	°C							
							C	onne	ecti	on																
							S		=						FK	=	flat	wire	cust	tomer	r-sp	ecif	ic			
							T		=	insu	lated	d wir	е		SW					ar wire						
							К		=	cust	ome	r-spe	ecifi	С	L	=	insu	late	strar	nded	wir	e				
							W		=	wire					Е	=	ena	mele	ed Cu	u-wire	ē					
							FV	V	=	flat	wire															
									Тс	lera	nce	class														
									A			C 60		FO	.15		К	=	cus	stome	r-s	oeci	fic			
									В	=	IE	C 60	751	FO	3		Р		pai							
									С	=	ΙE	C 60	751	FO	6		G	=	gro	pup						
									Υ	=	IE	C 60	751	FO	.1											
											Nire	lenc	nth i	n m	m											
											/ vii C	ieng	90111													
												Spe	cial													
												Т	=	sub	ostrat	e th	ickne	ss 0.	25 r	nm	Μ	=	me	etallize	ed bad	:k
												D	=	sub	ostrat	e th	ickne	ss 0.	38 r	nm	U	=	inv	erted	welc	ir
												R	=		ind h		-				S	=	spe	ecial		
												W	=	sin	tered	pov	vder									



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