

Temperature Sensors

resistance thermometer







The temperature sensors can be individually adjusted to the specific task and conditions by a wide-ranged modular configuration system including various types of available shaft materials and variable installation length. Thus, in all fields of industrial process technology, monitoring and laboratory applications universal and accurate temperature measurements are available.

Features

- temperature measurements by means of platinum chip resistance PT100 and PT1000 or NTC resistance
- 2-wire or 4-wire system
- · high accuracy and long-term stability
- low maintenance required in combination with long service life
- robust, shock-protected design
- dimension comparable to glass electrodes
- installation length variable
- · various shaft materials available
- universally applicable at temperatures up to +150 °C (depending on shaft material)
- electrical connection by threaded plug head connector PG 13.5, plug head connector S+ or fixed connection
- appropriate for installation in armatures

Application fields

- universal temperature measurements for industrial applications and laboratories
- application for temperature compensation at pH and redox measurements

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Technical data

Parameter		Description					
	PT100	$100~\Omega~/>10~\text{M}\Omega$					
resistance / insulation resistance	PT1000	1000 Ω / > 10 M Ω					
resistance	NTC	1000 Ω / > 100 M Ω					
		normal-purpose glass					
shaft material		PVC					
		PVDF					
shaft diameter		12 mm					
installation length		fabrication according to customers request					
		threaded plug head connector PG 13.5					
electrical connection		plug head connector S+					
		fixed connection					
	normal-purpose glass	−10 to +150 °C					
permitted temperature range	PVC	−20 to +50 °C					
temperature range	PVDF	−20 to +115 °C					
max. permitted pressu	ıre	6 bar					

Order options

	measuring parameter		design measu- ring system		electrical connection			shaft properties		installation length		number conductors		
4	TE		Р		PA			D		12		2		
 order 	temperature	TE	PT100	P		plug head connector S+		S+	PVC	K1	variable, indi- cation in cm	xx	2-wire system	2
			PT1000	L	no thread	fixed connection, X=cable length in m, measuring transducer with	no connector	FX	PVDF	K2			4-wire system	4
example			NTC	Ν			BNC connector straight	FXG	normal-pur- pose glass	D			_	
		•	_				BNC connector angled	FXB			•			
							DIN connector	FXD						
						threaded plug head connector PG 13.5		PA						
				thread	fixe X=0 m trai	no connector	EX							
					าd PG 13.5	fixed connection, X=cable length in m, measuring transducer with	BNC connector straight	EXG						
							BNC connector angled	EXB						
						on, in	DIN connector	EXD						

We will be happy to assist you by selecting the suitable options that meet your requirements. In addition to the displayed order options special customized designs are certainly possible. Please contact us!

The necessary accessories such as connecting cables and armatures can be found in the respective technical data sheets. Specifications are subject to modifications.

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