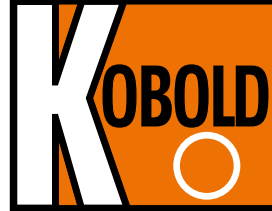


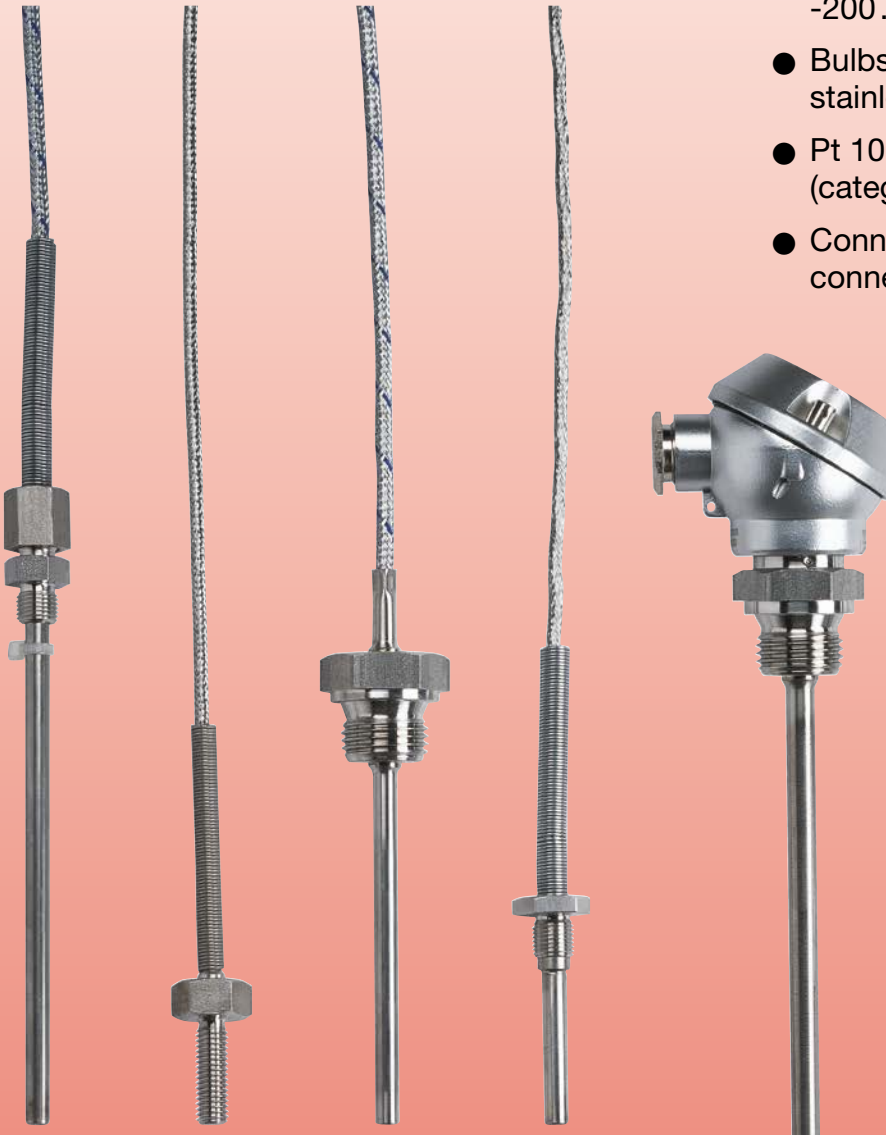


Screw-In Resistance Thermometers



measuring
•
monitoring
•
analysing

TWE-1/-2/-3



- Measuring ranges: -200 ... +600 °C
- Bulbs in stainless steel 1.4571
- Pt 100 sensor category B (category A optional)
- Connection: cable or connection head form MA



T2

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Description

The screw-in resistance thermometers comprise a rugged sensor made of stainless steel with fixed or sliding thread. The electrical connection is made with a connecting lead or a connection head of form MA. Depending on the version, the connecting leads are suitable for dry or moist rooms. The junction between connecting lead and protective tube is strain relieved and is fitted with bend protection. Protective tube and process connection are made of stainless steel. Other materials are available on request. Pt100 temperature sensors according to IEC 751, class B are used as standard. Other classes or versions are also available with Pt 500 and Pt 1000. These sensors are

available as single or double resistance thermometers. The screw-in resistance thermometers are available in two-, three- or four-wire circuitry.

Applications

Screw-in resistance thermometers are particularly suited for measuring temperature in liquid and gaseous media. Areas of application are to be found in heating installation, furnace and apparatus construction, machine construction and building installations as well as in industry in general.

Screw-in Resistance Thermometers

with fixed process connection G 1/2 male thread

	Protective tube and process connection in stainless steel 1.4571 Connecting lead: PTFE/silicone 0.22 mm ² with bend protection Standard cable length: 2500 mm, others on request Temperature range: -20 ... +200 °C				
	Model number	Immersion length	Sensor type/class	Wiring	..S = Silicone cable (Standard 2.5 m)
	TWE-164 102..	100 mm	..1.. = 1x Pt100, classe B ..2.. = 2x Pt100, classe B	..2.. = 2-wire ..3.. = 3-wire ..4.. = 4-wire*	
	TWE-164 162..	160 mm			
	TWE-164 252..	250 mm			
	TWE-164 402..	400 mm			
	TWE-164 502..	500 mm			
TWE-164 xx2..	Special length				

* with 1x Pt100 only
Please specify special lengths for bulb or cable in writing!

Screw-in Resistance Thermometers

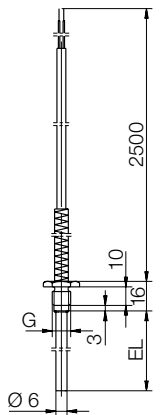
with sliding process connection M10x1 male thread

	Protective tube and process connection in stainless steel 1.4571 Connecting lead: glass fibre/stainless steel braided 0.22 mm ² with bend protection Standard cable length: 2500 mm, others on request Temperature range: -20 ... +400 °C				
	Model number	Immersion length	Sensor type/class	Wiring	..E = stainless steel braided cable (standard 2.5 m)
	TWE-164 10N..	100 mm	..1.. = 1x Pt100, classe B ..2.. = 2x Pt100, classe B	..2.. = 2-wire ..3.. = 3-wire ..4.. = 4-wire*	
	TWE-164 16N..	160 mm			
	TWE-164 25N..	250 mm			
	TWE-164 40N..	400 mm			
	TWE-164 50N..	500 mm			
TWE-164 xxN..	Special length				

* with 1x Pt100 only
Please specify special lengths for bulb or cable in writing!

Screw-in Resistance Thermometers

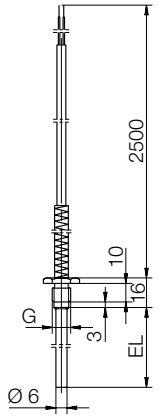
with sliding process connection M10x1 male thread

	Protective tube and process connection in stainless steel 1.4571 Connecting lead: glass fibre/stainless steel braided 0.22 mm ² with bend protection Standard cable length: 2500 mm, others on request Temperature range: -20 ... +400°C				
	Model number	Immersion length	Sensor type/ class	Wiring	Connection cable
	TWE-164 10M..	100 mm	..1.. = 1x Pt100, classe B ..2.. = 2x Pt100, classe B	..2.. = 2-wire ..3.. = 3-wire ..4.. = 4-wire*	..E = stainless steel braided cable (standard 2.5 m)
	TWE-164 16M..	160 mm			
	TWE-164 25M..	250 mm			
	TWE-164 40M..	400 mm			
	TWE-164 50M..	500 mm			
TWE-164 xxM..	Special length				

* with 1x Pt100 only
 Please specify special lengths for bulb or cable in writing!

Screw-in Resistance Thermometers vibration-resistant

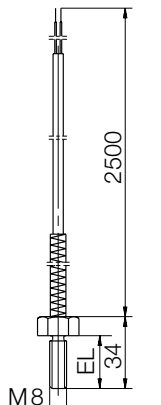
with sliding process connection M10x1 male thread

	Protective tube and process connection in stainless steel 1.4571 Connecting lead: glass fibre/stainless steel braided 0.22 mm ² with bend protection Standard cable length: 2500 mm, others on request Temperature range: -20 ... +400°C				
	Model number	Immersion length	Sensor type/ class	Wiring	Connection cable
	TWE-264 10M..	100 mm	..1.. = 1x Pt100, classe B ..2.. = 2x Pt100, classe B	..2.. = 2-wire ..3.. = 3-wire ..4.. = 4-wire*	..E = stainless steel braided cable (standard 2.5 m)
	TWE-264 16M..	160 mm			
	TWE-264 25M..	250 mm			
	TWE-264 40M..	400 mm			
	TWE-264 50M..	500 mm			
TWE-264 xxM..	Special length				

* with 1x Pt100 only
 Please specify special lengths for bulb or cable in writing!

Screw-in Resistance Thermometers

with fixed threaded pin M8 male thread

	Protective tube and process connection in stainless steel 1.4571 Connecting lead: glass fibre/stainless steel braided 0.22 mm ² with bend protection Standard cable length: 2500 mm, others on request Temperature range: -20 ... +300°C				
	Model number	Immersion length	Sensor type/ class	Wiring	Connection cable
TWE-384 02L..	25 mm	..1.. = 1x Pt100, classe B ..2.. = 2x Pt100, classe B	..2.. = 2-wire ..3.. = 3-wire ..4.. = 4-wire*	..E = stainless steel braided cable (standard 2.5 m)	

* with 1x Pt100 only
 Please specify special length for cable in writing!

Screw-in Resistance Thermometers

with fixed process connection M12 x 1, G ¼, G ½, G ¾ male thread

	Protective tube and process connection in stainless steel 1.4301 Connecting lead: Silicon 0,56 mm ² Standardkabellänge: 2000 mm, andere auf Anfrage Temperature range: -20 ... +150 °C					
	Model number	Immersion length	Connection	Sensor type/class	Wiring	Connection cable
	TWE-K0302N..	23 mm	M12 x 1	..1.. = 1x Pt100, classe B ..2.. = 2-wire	..2.. = 2-wire	..E = Silicone cable (Standard 2.0 m)
	TWE-K03021..	23 mm	G ¼			
	TWE-K03042..	43 mm	G ½			
TWE-K03043..	Special length	G ¾				

Please specify length of cable in writing!

Screw-in Resistance Thermometers with connection head form MA

with fixed process connection G ½ male thread, without neck-tube

	Protective tube and process connection in stainless steel 1.4571 Connecting head: Form MA Temperature range: -20 ... +400 °C				
	Model number	Immersion length	Sensor type/class	Wiring	Connection head
	TWE-164 102..	100 mm	..1.. = 1x Pt100, classe B ..2.. = 2x Pt100, classe B	..2.. = 2-wire ..3.. = 3-wire* ..4.. = 4-wire*	..M = head form MA
	TWE-164 162..	160 mm			
	TWE-164 252..	250 mm			
	TWE-164 402..	400 mm			
	TWE-164 502..	500 mm			
TWE-164 xx2..	Special length				

* with 1x Pt100 only
Please specify special lengths for bulb in writing!

Screw-in Resistance Thermometers with connection head form MA

with adjustable process connection G ¼ male thread

	Protective tube and process connection in stainless steel 1.4571 Connecting head: Form MA Temperature range: -20 ... +600 °C				
	Model number	Immersion length	Sensor type/class	Wiring	Connection head
	TWE-164 101..	100 mm	..1.. = 1x Pt100, classe B ..2.. = 2x Pt100, classe B	..2.. = 2-wire ..3.. = 3-wire* ..4.. = 4-wire*	..M = head form MA
	TWE-164 161..	160 mm			
	TWE-164 251..	250 mm			
	TWE-164 401..	400 mm			
	TWE-164 501..	500 mm			
TWE-164 xx1..	Special length				

* with 1x Pt100 only
Please specify special lengths for bulb in writing!