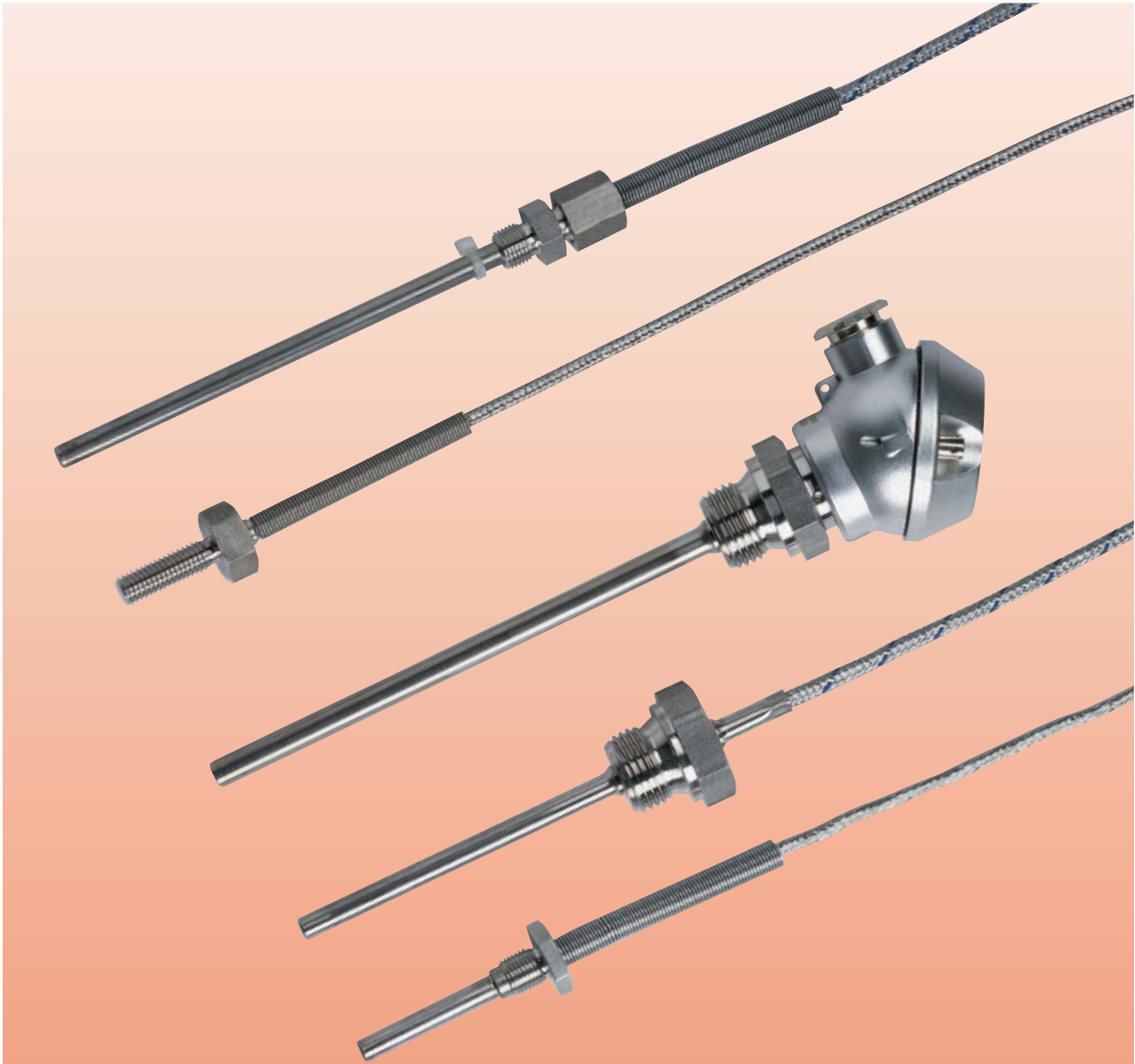




Screw-In Resistance Thermometers



measuring
•
monitoring
•
analysing



- Measuring ranges: -20 ... +600 °C
- Bulbs made of stainless steel 1.4571
- Pt 100 sensor category B (category A optional)
- Connection: cable or connection head form MA



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KOBOLD Messring GmbH
Nordring 22-24
D-65719 Hofheim/Ts.
☎ +49(0)6192 299-0
Fax +49(0)6192 23398
E-Mail: info.de@kobold.com
Internet: www.kobold.com

Model:
TWE- 1..2..3

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. Pt 100 temperature sensors according to IEC 751, category B are used as standard. Other categories 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 made of stainless steel 1.4571 connecting lead: PTFE/silicone 0.22 mm ² with bend protection Standard cable length: 2500 mm, others upon request Temperature range: -20 ... +200 °C				
	Model number	Immersion length	Sensor type/category	Wiring	Connection cable
	TWE-164 102..	100 mm	..1.. = 1x Pt 100, category B ..2.. = 2x Pt 100, category B	..2.. = 2-wire ..3.. = 3-wire ..4.. = 4-wire*	..S = Silicone cable (standard 2.5 m)
	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				

Please specify special lengths for bulb or cable in writing

*with 1 x Pt100 only

Screw-In Resistance Thermometers

with sliding process connection M10x1 male thread

	Protective tube and process connection made of stainless steel 1.4571 Connecting lead: glass silk/glass silk/stainless steel braided 0.22 mm ² with bend protection Standard cable length: 2500 mm, others upon request Temperature range: -20 ... +400 °C				
	Model number	Immersion length	Sensor type/category	Wiring	Connection cable
	TWE-164 10N..	100 mm	..1.. = 1x Pt 100, category B ..2.. = 2x Pt 100, category B	..2.. = 2-wire ..3.. = 3-wire ..4.. = 4-wire*	..E = Braided cable (standard 2.5 m)
	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				

Please specify special lengths for bulb or cable in writing

*with 1 x Pt100 only

Screw-in resistance thermometer

with fixed process connection M10x1 male thread

	Protective tube and process connection made of stainless steel 1.4571 Connecting lead: stainless steel braided 0.22 mm ² with bend protection Standard cable length: 2500 mm, others upon request Temperature range: -20 ... +400 °C				
	Model number	Immersion length	Sensor type/category	Wiring	Connection cable
	TWE-164 10M..	100 mm	..1.. = 1x Pt100, category B ..2.. = 2x Pt100, category B	..2.. = 2-wire ..3.. = 3-wire ..4.. = 4-wire*	..E = 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				

Please specify special lengths for bulb or cable in writing

*with 1x Pt100 only

Screw-in resistance thermometer vibration-resistant

with fixed process connection M10x1 male thread

	Protective tube and process connection made of stainless steel 1.4571 Connecting lead: stainless steel braided 0.22 mm ² with bend protection Standard cable length: 2500 mm, others upon request Temperature range: -20 ... +400 °C				
	Model number	Immersion length	Sensor type/category	Wiring	Connection cable
	TWE-264 10M..	100 mm	..1.. = 1x Pt100, category B ..2.. = 2x Pt100, category B	..2.. = 2-wire ..3.. = 3-wire ..4.. = 4-wire*	..E = 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				

Please specify special lengths for bulb or cable in writing

*with 1x Pt100 only

Screw-in resistance thermometer

with rigid threaded journal M 8 male thread

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

Please specify cable special length in writing

*with 1x Pt100 only

Screw-in resistance thermometer

with fixed process connection M 12 x 1; G 1/4, G 1/2, G 3/4 male thread

	Protective tube and process connection made of stainless steel 1.4301 Connecting lead: Silicone 0.56 mm ² Standard cable length: 2000 mm, others upon request Temperature range: -20 ... +150 °C					
	Model number	Immersion length	Connection	Sensor type/cat.	Wiring	Connect. cable
	TWE-K0302N..	23 mm	M 12x1	..1.. = 1x Pt100, category B	..2.. = 2-wire	..S = Silicone cable (standard 2.0 m)
	TWE-K03021..	23 mm	G 1/4			
	TWE-K03042..	43 mm	G 1/2			
TWE-K03043..	43 mm	G 3/4				

Please specify length of cable in writing

Screw-in resistance thermometer with connection head form MA

with fixed process connection G 1/2 male thread, without stand-off

	Protective tube and process connection made of stainless steel 1.4571 Temperature range: -20 ... +600 °C Connection head: form MA				
	Model number	Immersion length	Sensor type/category	Wiring	Connection cable
	TWE-164 102..	100 mm	..1.. = 1x Pt100, category B ..2.. = 2x Pt100, category 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				

Please specify special length in writing

*with 1x Pt100 only

Screw-in resistance thermometer with connection head form MA

with adjustable process connection G 1/4 male thread

	Protective tube and process connection made of stainless steel 1.4571 Temperature range: -20 ... +600 °C Connection head: form MA				
	Model number	Immersion length	Sensor type/category	Wiring	Connection cable
	TWE-164 101..	100 mm	..1.. = 1x Pt100, category B ..2.. = 2x Pt100, category 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				

Please specify special length in writing

*with 1x Pt100 only