



Application Examples for Resistance Thermometers with Threaded Socket and Mineral-Insulated Gauge Slide:



Waste Recycling / Incineration



Plant and Machine Construction



Automobile Industry



Chemical Industry



Laboratories



**Energy Production** 

#### **55-WES**

Resistance Thermometers with Threaded Socket and Mineral-Insulated Gauge Slide

Resistance thermometers with threaded socket and mineral-insulated gauge slide (55-WES) are used for general temperature measurement in low-pressure gaseous, liquid and plastic media environments, depending on the properties of the protective tube and surrounding media, up to a temperature of 800°C.

A threaded socket is welded to the protective tube, providing for the stability of the process connector in sensors of this product line. Depending on the application, the socket is welded to the protective pipe, either directly beneath the connection head or with a gap of 100 or 200mm, for example.

The protective fittings are usually made from a single seamlessly drawn high-grade steel tube with a circular blank welded inside. In order to facilitate particularly quick temperature change measurements, we offer sensors with a tapered sensor tip.

For specialised applications (precision, long-term stability, etc.) we recommend the application of precision resistors with narrowed tolerance.

Resistance values and tolerances of our resistance thermometers are pursuant to DIN EN 60751.

Our resistance thermometers are also available in explosion protected ATEX models.

Further technical information for this product line is available on our website:

http://www.guenther.eu/en/products/resistancethermometers/55-wes/screw-in-resistance-thermometerswith-sheath-measurement-inserts



#### (1) Connection Head

В	BUSH
BUS	BUZH
BUZ	NA
BBK	DL / MA

## 2 Process Connector (Detachable)

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		G 1 A
		G 1/2 A
		M18 x 1,5
		G 3/4 A
		M20 x 1,5
	Combined:	M24 x 1,5 / G 1/2 A
		M10 x 1 / G 1/2 A

### 3 Outer Protective Tube Materials/Dimensions

St. 35.8	Mat. No. 1.0305
Stainless Steel	Mat. No. 1.4571
X10Cr Al 24	Mat. No. 1.4762
X15CrNi Si 25 20	Mat. No. 1.4841
Inconel	Mat. No. 2.4816
Kanthal	
Diameter:	6 - 22 mm
Wall:	0,75 - 3 mm
	Stainless Steel X10Cr Al 24 X15CrNi Si 25 20 Inconel Kanthal

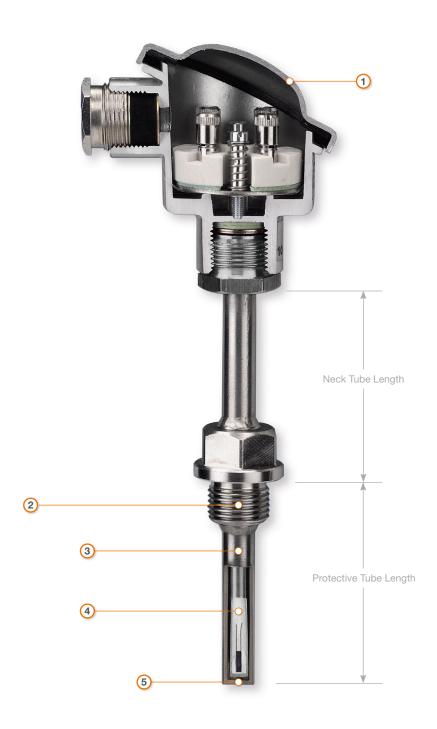
#### 4) Mineral-Insulated Gauge Slide

Mantle Diameter:	1,5 - 8,0 mm
Tip Diameter:	2,0 - 10,0 mm
Connection:	
1 x Pt100 up to 3 x Pt100 Ohm	
2-Wire up to 4-Wire	

# 5 Configuration

or Tapered to between 6 and 15 mm

## Example of a common implementation in this product line



Individual Solutions such as, for example materials, process connectors, accessories, etc.not listed here, are often viable.

Please contact us for further information!



