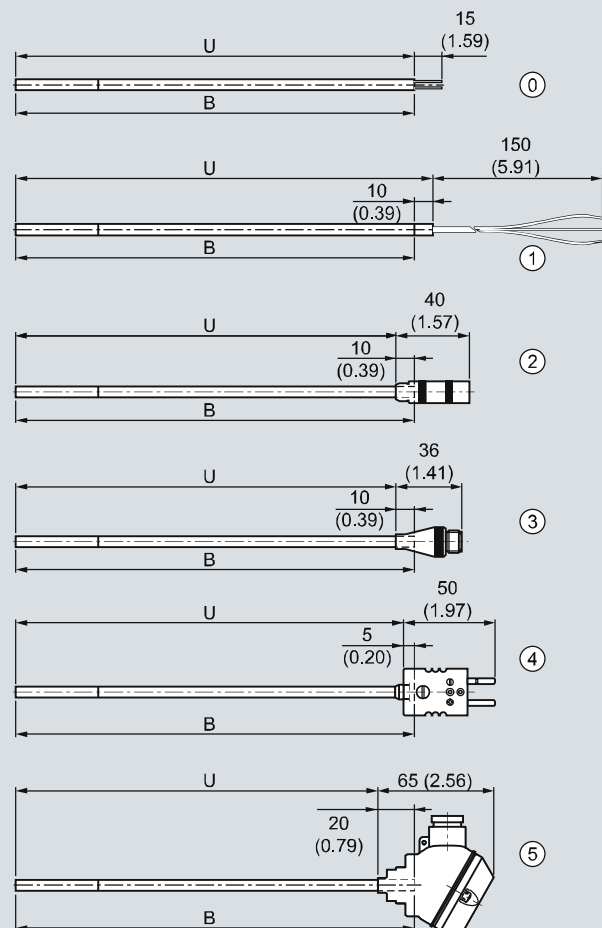


Temperature Measurement

SITRANS TS200

Compact
mineral-insulated

Dimensional drawings



B Measuring insert length
H Head height
U Insertion length

① Basic sensor	$U = B$	IP00
① Flying leads	$U = B + 10$ (0.39)	IP00
② LEMO coupling 1S	$U = B - 10$ (0.39)	IP50
③ M12 plugs	$U = B - 10$ (0.39)	IP54
④ Thermocouple coupling	$U = B - 5$ (0.20)	IP20
⑤ Mini connection head	$U = B - 20$ (0.79)	IP54

SITRANS TS200, temperature sensors in cable version, universal use, mineral-insulated version, for unfavorable space conditions, dimensions in mm (inch)

Temperature Measurement

SITRANS TS200

Compact
mineral-insulated

Selection and Ordering data	Order No.	Ord. Code
SITRANS TS200 Temperature sensors in compact version, universal use, mineral-insulated version, for unfavorable space conditions	7 MC 7 2 1	
Sensor diameter • 6 mm (0.24 inch) • Special version	6 9	H 1 Y
Length of sensor element B, effective length U see dimensional drawing on page 42 • 200 mm (7.87 inch) • 500 mm (19.68 inch) • 750 mm (29.53 inch)	C D E	
Customer-specific length of sensor element B, effective length U see dimensional drawing on page 42 enter customer specific length with Y44, see order codes below • 70 ... 100 mm (2.76 ... 3.94 inch) Standard: 100 mm (3.94 inch) • 101 ... 250 mm (3.98 ... 9.84 inch) Standard: 200 mm (7.87 inch) • 251 ... 500 mm (9.88 ... 19.68 inch) Standard: 500 mm (19.68 inch) • 501 ... 750 mm (19.72 ... 29.53 inch) Standard: 750 mm (29.53 inch) • 751 ... 1 000 mm (29.57 ... 39.37 inch) Standard: 1 000 mm (39.37 inch) • 1 001 ... 1 500 mm (39.4 ... 59.00 inch) Standard: 1 500 mm (59.00 inch)	B C D E F G	
Special length for sensor element B, effective length U see dimensional drawing on page 108 • Special length Sensor element > 1 500 mm (59.06 inch)	X	
Sensor • Pt100, basis, -50 ... +400 °C (-58 ... +752 °F) • Pt100, vibration-resistant, -50 ... +400 °C (-58 ... +752 °F) • Pt100, expanded range, -196 ... +600 °C (-320.8 ... +1 112 °F) • Thermocouple Type K, -40 ... +1 000 °C (-40 ... +1,832 °F) • Thermocouple Type J, only class 2, -40 ... +750 °C (-40 ... +1,382 °F)	A B C K J	
Number/Accuracy • Single, basic accuracy (Class 2/Class B) • Single, increased accuracy (Class 1/Class A) • Single, highest accuracy (Class AA) • Double, basic accuracy (Class 2/Class B) • Double, increased accuracy (Class 1/Class A) • Double, highest accuracy (Class AA) • Special version of sensor type, number and accuracy	1 2 3 4 5 6 Z 0	K 1 Y
Design of connection side • Solid wire ends (sensor element) • Flying leads • LEMO coupling 1S • M12 connector, not for double Pt100 • Thermocouple coupling, from TC-material (2xTC on request) • Mini connection head, aluminum, not for double Pt 100 • Special version, connection side	0 1 2 3 4 5 9	M 1 Y

Selection and Ordering data

Order code

Further designs

Add "-Z" to Order No. and specify Order Code.

Enter sensor diameter
in plain text

H1Y

Enter sensor type, number and accuracy
in plain text

K1Y

Enter type of connection side
in plain text

M1Y

Customer-specific length of sensor element B, effective length, U see dimensional drawing on page 42

Select range, enter desired length in plain text
(No entry = standard length)

Y44

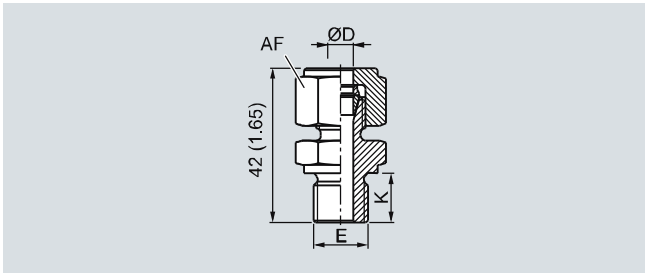
Additional configurations on page after next page!

You find ordering examples on page 33!

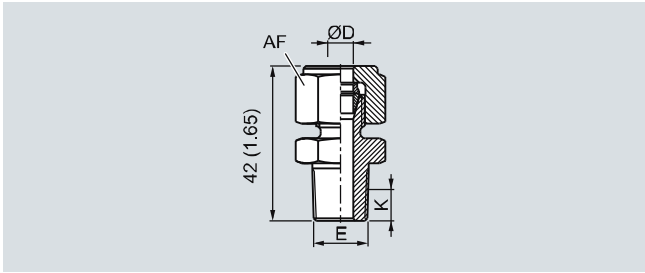
Temperature Measurement

SITRANS TS200

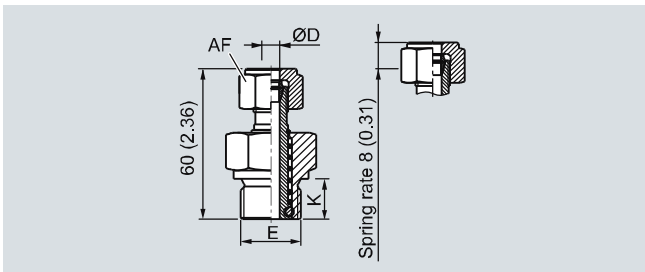
Compact mineral-insulated



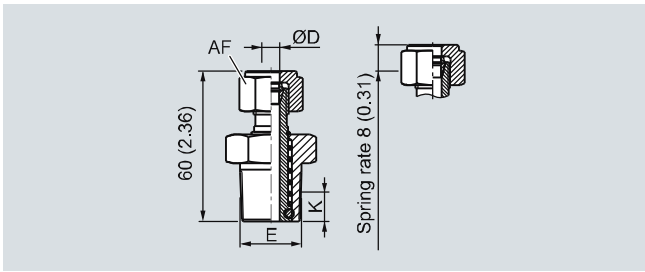
Compression fitting, dimensions in mm (inch)



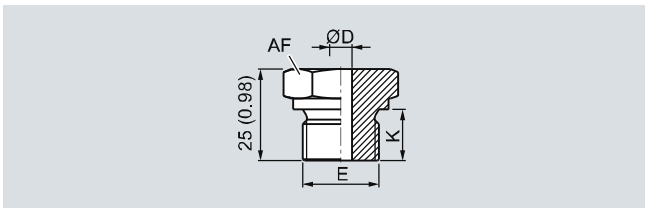
Compression fitting NPT, dimensions in mm (inch)



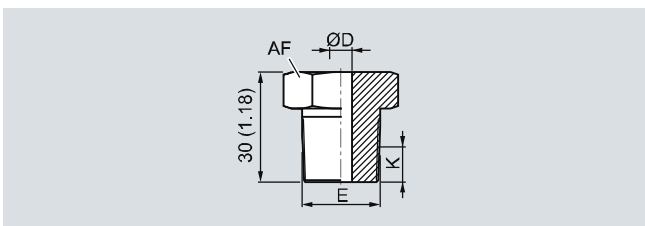
Spring-loaded compression fitting, dimensions in mm (inch)



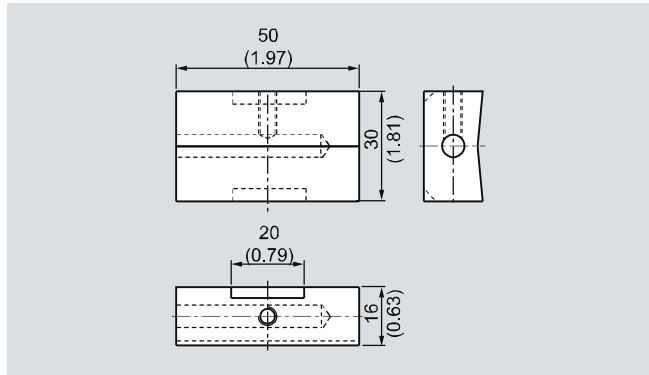
Spring-loaded compression fitting NPT, dimensions in mm (inch)



Soldering nipple, metric, dimensions in mm (inch)



Soldering nipple NPT, dimensions in mm (inch)



Surface connection piece, dimensions in mm (inch)

Temperature Measurement

SITRANS TS200

Compact
mineral-insulated

Selection and Ordering data	Order code
Options	
Add "-Z" to order number, add options, separate extensions with "+".	
Process connection	
• Soldering nipple G $\frac{1}{4}$ ", enclosed	A20
• Soldering nipple G $\frac{1}{2}$ ", enclosed	A21
• Soldering nipple NPT $\frac{1}{2}$ ", enclosed	A22
• Soldering nipple M18x1.5, enclosed	A23
• Soldering nipple M8x1, enclosed	A24
• Compression fitting G $\frac{1}{4}$ ", enclosed	A30
• Compression fitting G $\frac{1}{2}$ ", enclosed	A31
• Compression fitting NPT $\frac{1}{2}$ ", enclosed	A32
• Compression fitting M8x1, enclosed	A34
• Compression fitting, spring-loaded G $\frac{1}{2}$ ", enclosed	A41
• Compression fitting, spring-loaded NPT $\frac{1}{2}$ ", enclosed	A42
• Compression fitting, spring-loaded M18x1.5, enclosed	A43
• Compression fitting, spring-loaded, M8x1, enclosed	A44
• Surface connection piece, enclosed	A50
Explosion protection (in preparation)	
Intrinsic safety "ia", "ic"	E01
Certificates and approvals	
• EN10204-3.1 Inspection certificate for materials coming into contact with media	C12
• EN10204-3.1 Inspection certificate visual, measurement and functional inspection	C34
• NACE Standard MR-01-75 compliance	C50
• ISO 9001 grease-free (cleaned for e.g. oxygen applications)	C51
Setting, designation, calibration	
• Stainless steel TAG plate Enter lettering in plain text	Y15
• Plant calibration per 1 point, enter temperature in plain text. Attention: For devices with built-in head transmitters, select test points within the set measurement range	Y33
Further options	
Special version, enter in plain text	Y99

You find ordering examples on page 33!