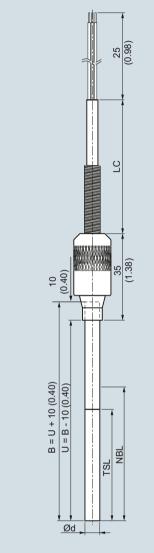
Temperature Measurement

SITRANS TS100

Cable mineral-insulated

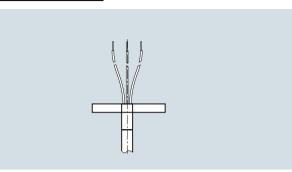
Dimensional drawings



- Measuring insert length В
- Ød Measuring insert outer diameter (6 (0.24))

- LC Cable length NBL Non-bending length TSL Temperature-sensitive length
- U Insertion length
- SITRANS TS100, temperature sensors in cable version, universal use, mineral-insulated version, for unfavorable space conditions, IP54 at sen-sor/cable transition, dimensions in mm (inch)

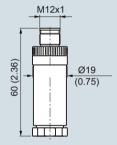
Design of connection side



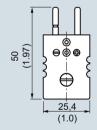
Flying leads, IP00, dimensions in mm (inch)



Coupling LEMO 1S, IP50, dimensions in mm (inch)



M12 plug, IP54, dimensions in mm (inch)



Thermocouple plug, IP20, dimensions in mm (inch)

Temperature Measurement SITRANS TS100

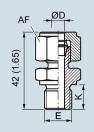
Cable mineral-insulated

Selection and Ordering data	Article No.	Selection and Ordering data	Order cod
SITRANS TS100	7MC7111-	Further designs	
Temperature sensors in cable version, universal use, mineral-insulated version, for		Add "-Z" to Article No. and specify Order code.	
unfavorable space conditions		Customer-specific length of sensor element B,	Y44
↗ Click on the Article No. for the online confi-		effective length U = B-10	
guration in the PIA Life Cycle Portal.		Select range, enter desired length in plain text (No entry = standard length)	
Sensor diameter		Options	
6 mm (0.24 inch)	6	Add "-Z" to Article No., add options, separate extensions	
Length of sensor element B, effective		with "+".	
length U = B-10; see dimensional drawings page 2/38		Connection cable, type and length	
200 mm (7.87 inch)	С	Cable type = 1st letter,	
500 mm (19.68 inch)	D	Length 1 99 m (3.28 324.80 ft) = 2nd + 3rd	
750 mm (29.53 inch)	E	place e.g.: 34 m (111.55 ft) connection cable PVC	
Customer-specific length of sensor ele-		(PVC code is J34)	
ment B, effective length U = B-10; see dimensional drawings page 2/38		with ?? meters connection cable (JJ) PVC/PVC,	J01 J99
enter customer specific length with Y44,		Operating temperature (-10+105°C) (14 221 °F) with ?? meters connection cable (SLFP)	S01 S99
see Order codes below		Silicone/Fluorpolymer, operating temperature	301 355
70 100 mm (2.76 3.94 inch)	В	-10 +80 °C (-14 +356 °F)	
Initial: 100 mm (3.94 inch) 101 250 mm (3.98 9.84 inch)	с	with ?? meters connection cable (TGLV) PTFE/glass	L01 L99
Initial: 200 mm (7.87 inch)		fiber/reinforced with stainless steel), Operating tem- perature (-100+205°C (148 401°F))	
251 500 mm (9.88 19.68 inch)	D		
Initial: 500 mm (19.68 inch)		Additional configurations on page after next	page
501 750 mm (19.72 29.53 inch) Initial: 750 mm (29.53 inch)	E	You find ordering examples on page 2/37.	
751 1 000 mm (19.72 39.37 inch)	F		
Initial: 1 000 mm (39.37 inch)			
1 001 1500 mm (39.4 59.00 inch)	G		
Initial: 1 500 mm (59.00 inch)			
Sensor			
Please note: The accuracy class range can be lower than the measuring range. For more			
information, see page 2/16			
Pt100, basis, -50 +400 °C	A		
(-58 +752 °F) Pt100, vibration-resitant, -50 +400 °C	в		
(-58 +752 °F)	В		
Pt100, expanded range,	С		
-196 600 °C (-320.8 1 112 °F)	K		
Thermocouple Type K, -40 +1 000 °C (-40 +1 832 °F)	к		
Thermocouple Type J, only class 2,	J		
-40 +750 °C (-40 +1 382 °F)			
Sensor number/Accuracy			
Single, basic accuracy (Class 2/Class B)	1		
Single, increased accuracy	2		
(Class 1/Class A)			
Single, highest accuracy (Class AA)	3		
Double, basic accuracy	4		
(Class 2/Class B)			
Double, increased accuracy	5		
(Class 1/Class A) Double, highest accuracy	6		
(Class AA)	0		
Design of connection side			
Flying leads	1		
LÉMO coupling 1S	2		
M12 connector, not for double Pt100 Thermocouple coupling, from TC-material	3 4		

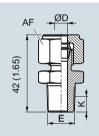
2

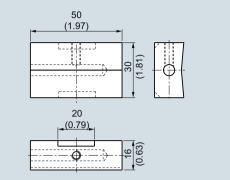
Temperature Measurement

SITRANS TS100



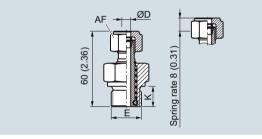
Compression fitting, dimensions in mm (inch)



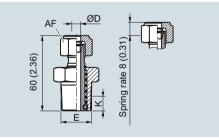


Surface connection piece, dimensions in mm (inch)

Compression fitting NPT, dimensions in mm (inch)



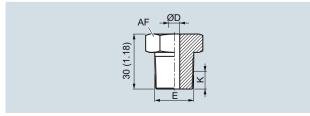
Spring-loaded compression fitting, dimensions in mm (inch)



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



Soldering nipple, metric, dimensions in mm (inch)



Soldering nipple NPT, dimensions in mm (inch)

Temperature Measurement

SITRANS TS100

Selection and Ordering data	Order code
Options	
Add "-Z" to Article No., add options, separate extensions with "+".	
Process connection	
Soldering nipple G1/4", enclosed	A20
Soldering nipple G½", enclosed	A21
Soldering nipple NPT1/2", enclosed	A22
Soldering nipple M18x1.5, enclosed	A23
Compression fitting G1/4", enclosed	A30
Compression fitting G1/2", enclosed	A31
Compression fitting NPT ½", enclosed	A32
Surface connection piece, enclosed (non Ex)	A50
Explosion protection	
Intrinsic safety "ia", "ic"	E01
Certificates and approvals EN10204-3.1 Inspection certificate for materials com- ing into contact with media	C12
EN10204-3.1 Inspection certificate visual: measure- ment and functional inspection	C34
EN 10204-2.1: Declaration of compliance with the order	C35
ISO 9001 grease-free (cleaned for e.g. oxygen applications)	C51
Further options	
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

You find ordering examples on page 2/37.

2





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Temperature: Temperature Probes & Thermowells, Temperature ransmitters, Temperature Regulators & Temperature Displays

Level: Level Transmitters & Switches

Pressure: Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

Precision Pneumatics: Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

Valves: Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

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