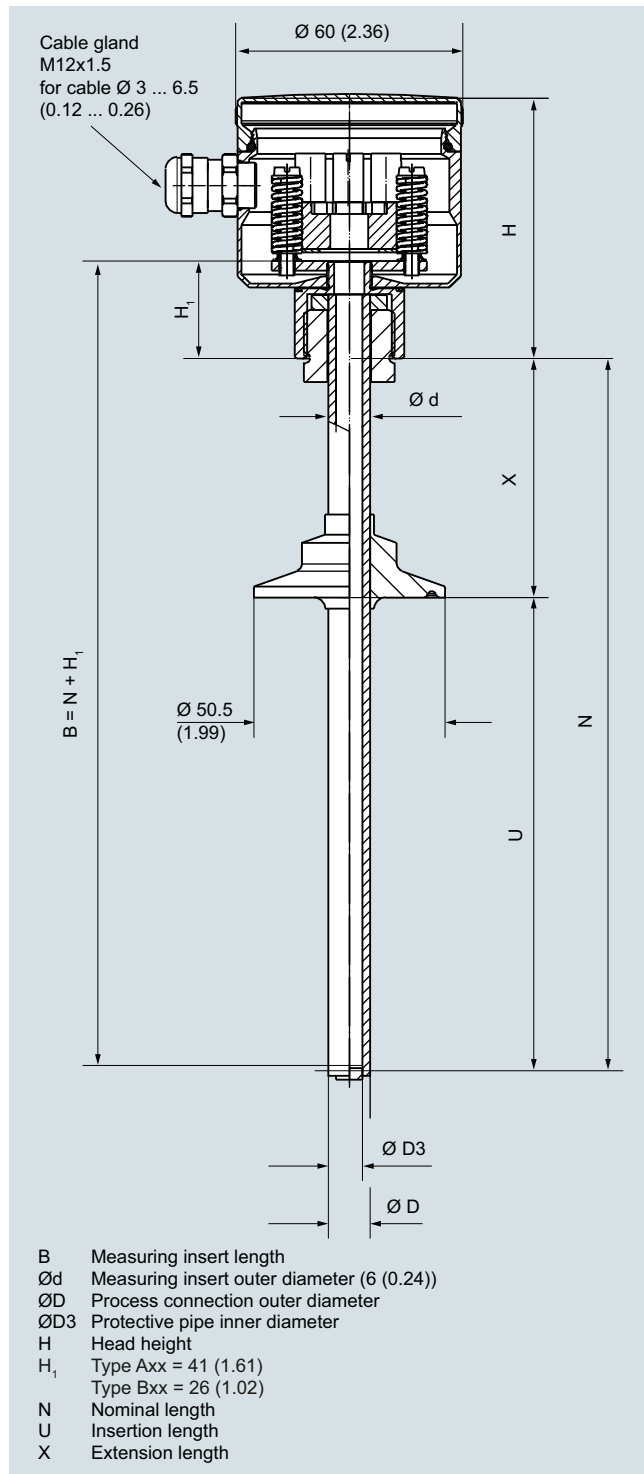


Temperature Measurement

SITRANS TS300

For food, pharmaceuticals and biotechnology modular design

Dimensional drawings



SITRANS TS300 modular design, dimensions in mm (inch)

Temperature Measurement
SITRANS TS300

For food, pharmaceuticals and biotechnology modular design



Selection and Ordering data		Article No.	Order code	Selection and Ordering data		Article No.	Order code
SITRANS TS300 for food, pharmaceuticals and biotechnology, modular design for installation in pipelines and vessels ↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		7MC8005-	0 - 0	SITRANS TS300 for food, pharmaceuticals and biotechnology, modular design for installation in pipelines and vessels Neck tube length X 65 mm (2.56 inch) [M = 80 mm (3.15 inch)] 130 mm (5.12 inch) [M = 145 mm (5.71 inch)] Special version: (add Order code and plain text)		7MC8005-	0 - 0
Head Stainless steel head, BS0, screw cover (Standard version)		5		Insertion length Enter customer specific length with Y44, see Order codes below 15 mm (0.59 inch)			
Aluminum head, BAO, flange cover standard		1		16 ... 35 mm (0.63 ... 1.38 inch) Initial: 35 mm (1.38 inch)			
Plastic cover, BMO, screw cover		2		36 ... 50 mm (1.42 ... 1.97 inch) Initial: 50 mm (1.97 inch)			
Aluminum head, BB0, hinged cover low		3		51 ... 100 mm (2.01 ... 3.94 inch) Initial: 100 mm (3.94 inch)			
Aluminum head, BC0, hinged cover high		4		101 ... 160 mm (3.98 ... 6.30 inch) Initial: 160 mm (6.30 inch)			
Special version: (add Order code and plain text)		9	H 1 Y	161 ... 250 mm (6.34 ... 9.84 inch) Initial: 250 mm (9.84 inch)			
Process connection, material 1.4404 or 1.4435/316L Milk pipe union to DIN 11851 with slotted union nut and nominal diameter/pressure				251 ... 400 mm (9.88 ... 15.75 inch) Initial: 400 mm (15.75 inch)			
DN 25/PN 40		AA		1 ... 4 inch, Initial: 4 inch			
DN 32/PN 40		AB		4 ... 6 inch, Initial: 6 inch			
DN 40/PN 40		AC		6 ... 9 inch, Initial: 9 inch			
DN 50/PN 25		AD		Special version: (add Order code and plain text)			
Clamp connection:				Sensor Thin-film technology: measuring range -50 ... +400 °C (-58 ... +752 °F)			
ISO 2852	DIN 32676	Tri-Clamp	Outer diameter D		2 x Pt100, class A, three-wire		
-	-	1/2" / 3/4"	25.0 mm	CA	1 x Pt100, class A, four-wire		
DN 25/33.7/38	DN 25/32/40	1", 1 1/2"	50.5 mm	CB	Special version: (add Order code and plain text)		
DN 40/51	DN 50	2"	64.0 mm	CC	Further designs Add "-Z" to Article No. and add Order code		
DN 63.5	-	2 1/2"	77.5 mm	CD	Process connection completely electropolished	P01	
DN 88.9	DN 80	-	106.0 mm	CE	Hygiene version (R _a < 0.8 μm (3.1 x 10 ⁻⁵ inch))	H01	
Varivent connection (Tuchenhagen)					Certificates		
Ø D ₆ = 50 mm (1.97 inch), for Varivent housing DN 25 and DN 1"					• Roughness depth measurement R _a certified by factory certificate to EN 10204-3.1	C18	
Ø D ₆ = 68 mm (2.68 inch), for Varivent housing DN 40 ... 125 and 1 1/2" ... 6"					• Material certificate to EN 10204-3.1	C12	
NEUMO/BioControl					TAG plate made of stainless steel specify TAG No. in plain text	Y15	
Size 25					Test report (at 0, 50 and 100%) specify measuring range in plain text	Y33	
Size 50					If optional head transmitters are integrated, please note that all calibration points are located in the set measuring range. If the points are located outside the standard measuring range, a Y01 addition is always required.		
Size 65					Insertion length customer-specific Select range, enter desired length in plain text (No entry = standard length)	Y44	
Ingold flange							
DN 25 with hexagon union nut G 1 1/4", mounting length 40 mm (1.57"), diameter 24.8 mm (0.98") incl. O-ring							
Welding piece (sphere diameter 30 x 40 mm (1.2 x 1.6 inch) long)							
Special version: Type of screwed gland and nominal diameter (add Order code and plain text)							
Protective tube							
Ø D = 6 mm (0.24 inch)	Ø 3/3.2 mm, (0.12/0.13 inch) miner. insul.		1				
Ø D = 9 mm (0.35 inch)	Ø 6 mm (0.24 inch)		2				
Ø D = 9 mm (0.35 inch)	Ø 6 mm (0.24 inch) miner. insul.		3				
Ø D = 9 mm (0.35 inch)	Ø 3/3.2 mm, (0.12/0.12 inch) miner. insul.		4				
D ₂ = 5 Ø x 20 mm (0.2 x 0.79 inch) Special version: (add Order code and plain text)			9				L 1 Y

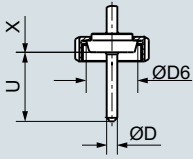
Temperature Measurement

SITRANS TS300

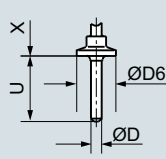
For food, pharmaceuticals and biotechnology modular design

Dimensional drawings

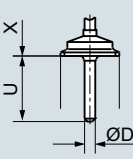
Conical connection with union nut according acc. to DIN 11851



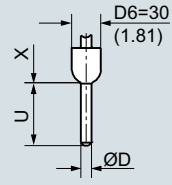
Tri-Clamp-connection



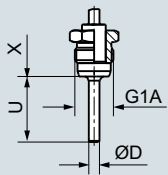
Clamp-connection acc. to DIN 32676 or ISO 2852



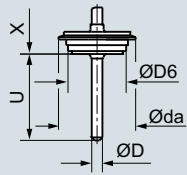
Ball weld sleeve Ball 30 x 40 (1.18 x 1.58)



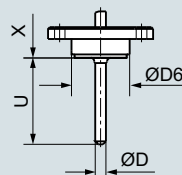
G1A without dead space due to conical metal cone



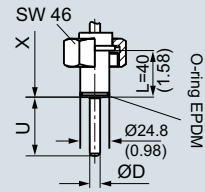
Varivent connection



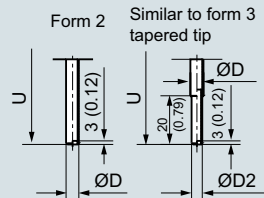
NEUMO BioControl



Ingold connection DN 25 with union nut



Protective pipe design based on DIN 43772



Process connections, dimensions in mm (inch)

Selection and Ordering data	Order code
Further designs	
Add "-Z" to Article No. and specify Order code.	
Built-in head transmitter	
Measuring range to be set must be specified with plain text data "Y11".	
SITRANS TH100, 4 ... 20 mA, Pt100	T10
SITRANS TH100 Ex i (ATEX), 4 ... 20 mA, Pt100	T11
SITRANS TH200, 4 ... 20 mA, universal	T20
SITRANS TH200 Ex i(ATEX), 4 ... 20 mA, universal	T21
SITRANS TH300, HART, universal	T30
SITRANS TH300 Ex i (ATEX), HART, universal	T31
SITRANS TH400 PA, universal	T40
SITRANS TH400 PA Ex i, universal	T41
SITRANS TH400 FF, universal	T45
SITRANS TH400 FF Ex i, universal	T46
Transmitter options	
Transmitter, enter complete setting in plain text (Y11:+/-NNNN ... +/-NNNN C,F)	Y11
Enter measuring point (max. 8 characters) in plain text	Y17
Transmitter, enter measuring point description (max. 16 characters) in plain text	Y23
Transmitter, enter measuring point text (max. 32 characters) in plain text	Y24
Transmitter, enter bus address in plain text	Y25
Transmitter, fail-safe value 3.6 mA (instead of 22.8 mA)	U36
Transmitter with a SIL 2 conformity	C20
Transmitter with a SIL 2/3 conformity	C23
Transmitter test protocol (5 points)	C11
Further options	
Connection form, flying leads (for the direct transmitter assembly, delivery without screws and springs)	G01
M12 device plug (in combination with 1x Pt100 and/or transmitter, Non-Ex)	G12
Option not found?	
Specify special version in plain text	Y98
Process number for the special version	Y99

Accessories, see page 2/238.