ELEKTRON ERMA-STRMEC

ELECTRONICS
REGULATION
MEASUREMENT
AUTOMATION

INSTRUCTIONS

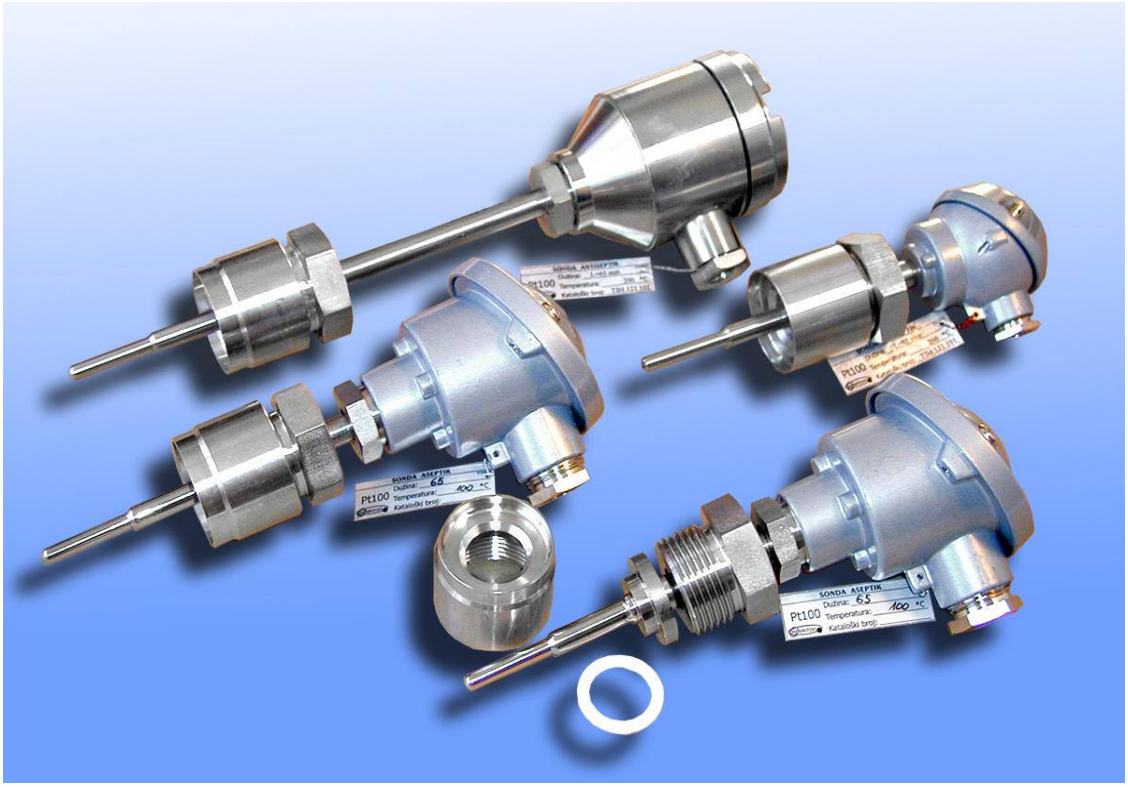
Screw-in thermometers – aseptic design

TB

CATALOG NUMBERS
- TB4x.00.01x

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Hrvatska



Basic caracteristics:

- Operating temperature - 50 do + 200 °C
- Connection head Aseptic design
- With or without transmitter 4-20 mA

1 DESCRIPTION

RTD thermometers with connections suitable for use in food industry.
Conections that are compliant for use in plants with CIP. Versions with one or two PT100 sensors class A. With or without transmitter 4-20 mA mounted in connection head of probe.

Aplications:

- for milk industry
- for beer industry
- beverages industry
- pharmaceutical industry
- ...

2 TEHNICAL CHARACTERISTICS

Connection head	Type F
Measuring element	Pt 100
	Pt 1000
Sheath tube	W.Nr. 1.4571, 316L
Operation temperature	-50 to +200 °C
Process connection	G 1″ ELEKTRON
	G 1″ + O ring
	TRI-CLAMP 1,5″
	HOLENDER DIN 11851
	HOLENDER DIN 11864-1
	VARIVENT
	BALL
	HOL.MATICA, KONUS, O-ring
	G 1″+METALNI KONUS

Connection head	Measuring element	Connection type	Material	Lenght	Single	Dual
B	Pt 100 kl. B	A G1" ELEKTRON	W.Nr.1.4571 ∅ 9x1/∅5x40	60	TP2.1A2.151	TP2.1A2.152
				100	TP2.1A2.171	TP2.1A2.172
				200	TP2.1A2.1A1	TP2.1A2.1A2
B	Pt 100 kl. B	B G1" + O ring	W.Nr.1.4571 ∅ 9x1/∅5x40	60	TP2.1B2.151	TP2.1B2.152
				100	TP2.1B2.171	TP2.1B2.172
				200	TP2.1B2.1A1	TP2.1B2.1A2

3 TABLE

CATALOG NUMBERS - ASEPTIC THERMOMETERS

Mark	TP	X.	X	X	X.	X	X	X		
Connection head		2.							*	Type B, Al
		4.								INOX Type B
		5.								Type B, povišena ,Al
Type of sensor / Elc. connection			1						*	Pt100 class B, 2-wire
			2							Pt100 class A, 2-wire
			3							Pt100 class 1/3 DIN, 2-wire
			4							Pt500
			5							Ni 100
			A							Pt100 class B, 3-wire
			B							Pt100 class A, 3-wire
			C							Pt100 class 1/3 DIN, 3-wire
			A							Pt100 class B, 4-wire
			B							Pt100 class A, 4-wire
			C							Pt100 class 1/3 DIN, 4-wire
			Z							On request
Process connection				A					*	G 1" ELEKTRON
				B					*	G 1" + O ring
				C						TRI-CLAMP 1,5"
				D						TRI-CLAMP 2"
				E						CLAMP DIN 32676 DN 25
				F						CLAMP DIN 32676 DN 40
				G						CLAMP DIN 32676 DN 50
				H						HOLENDER DIN 11851 DN 25
				I						HOLENDER DIN 11851 DN 32
				J						HOLENDER DIN 11851 DN 40
				K						HOLENDER DIN 11851 DN 50
				L						HOLENDER DIN 11864-1 DN 25
				M						HOLENDER DIN 11864-1 DN 32
				N						HOLENDER DIN 11864-1 DN 40
				O						HOLENDER DIN 11864-1 DN 50
				P						VARIVENT D 31 / DN 15/10
				R						VARIVENT D 50 / DN 32/25
				S						VARIVENT D 68 / DN 50/40
				T						BALL 30 X 40
				U						HOL..NUT, CONUS, O-ring
				V						G 1"+ METAL CONUS
				Z						On request
Sheath tube					1.				*	W.Nr.1.4571 ∅ 9 x 1
					2.					W.Nr.1.4571 ∅ 9 x 1 / ∅ 5 x 40
					Z.					On request
Lenght of the neck part (L1)						1			*	20 mm / 200 °C
						2				60 mm / 400 °C
						3				120 mm / 400 / 600°C

Lenght measurement part (L)

head	B			MEASURING CARTRIGE		
neck L1	20	60	120			
L	25			80		
	50			105		
	75	35		130		
	100	60		155		
	140	100	40	195		
	200	160	100	255		
	260	220	160	315		
	300	260	200	355		
	350	310	250	405		
	500	460	400	555		

1		25	B	220				
2		35	C	250				
3		40	D	260				
4		50	E	300				
5		* 60	F	310				
6		75	G	350				
7		* 100	H	400				
8		140	I	460				
9		160	J	500				
A		* 200						
			Z	On request				

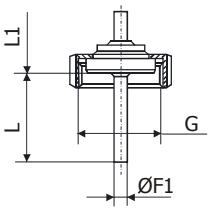
Number of thermoelements	1	* single
	2	dual

* Short delivery time

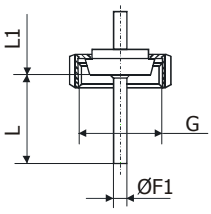
4 TEHNICAL DRAFT

4.1 PROCESS CONNECTIONS

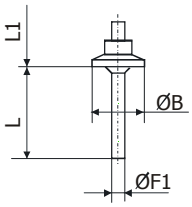
Connection with Holender nut
DIN 11864-1
(L,M,N,O)



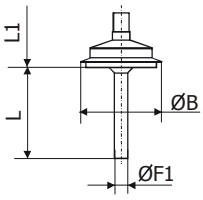
Cone connection with Holender nut
DIN 11851
(H,I,J,K)



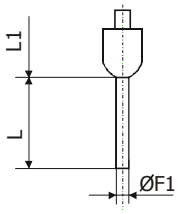
Tri-Clamp connection
(C,D)



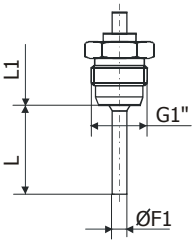
Clamp connection DIN 32676 or ISO 2852
(E,F,G)



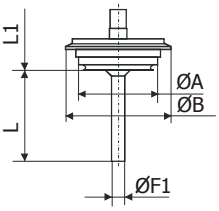
spherical connection
30 x 40 mm
(T)



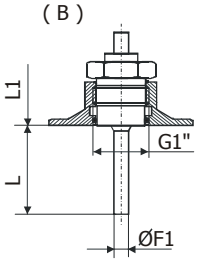
Connection G1" with metal cone
(V)



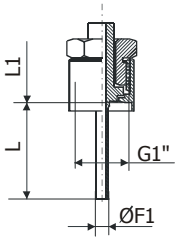
Varivent connection
(P,R,S)



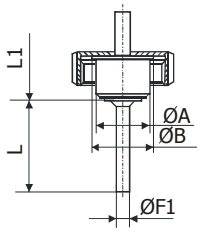
Connection G1" with rubber O-ring
(B)



Connection G1" "ELEKTRON"
(A)

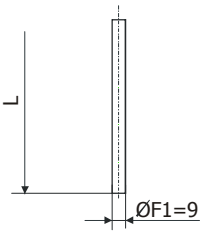


Connection with Holender nut, cone and O-ring
(U)

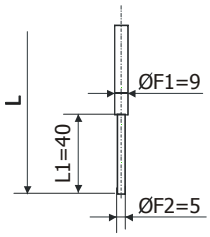


Forms sheath tube DIN 43772

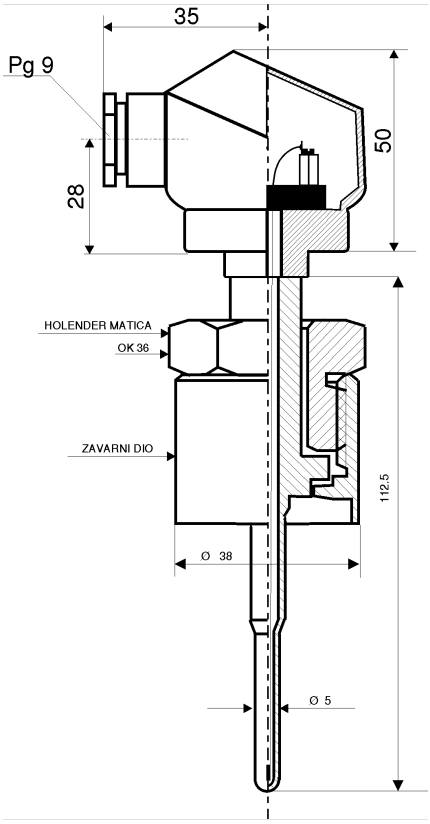
shape (1)



shape(2)



4.2 CONNECTION- G1˝ ELEKTON



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