

# **Capillar thermometer**

**Case: stainless steel** 

Model T4700



### Description

The equipment in this product line is made from stainless steel. This provides safety and protection from a multitude of aggressive substances and environmental influences.

Measurements are recorded by the liquid-filled measuring system, which consists of a temperature sensor, a capillary tube and a Bourdon spring. These three components combine to form a closed tube system.

The internal pressure in this system changes depending on the temperature, which causes the pointer axle connected to the spring to rotate and display the temperature value on the scale.

Temperatures of between -40°C and +400°C are rapidly and accurately indicated by the closed system.

The capillary tube, which is between 500 mm and 10000 mm in length, allows measurements to be taken at any point using a mechanical remote display.

#### Features

- i Fast response time
- Stainless steel housing for aggressive measuring substances
- i Measuring point and display in different locations
- Wide range of standard versions

#### **Measuring ranges**

-40 . . . 60 °C up to 0 . . . 400 °C

#### Options

- i Display range °F, °C/°F (two different scales)
- i Connection on the back
- i Laminated safety glass, acrylic
- i Accuracy class 1.0
- i Stainless steel measuring device holder
- Liquid damping

#### Applications

Mechanical engineering Refrigeration engineering Process technology Food industry

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## Technical data

Model		Options		
Symbol				
Nominal size				
Type of mounting	bezel on bottom	bezel on back	device holder	
Accuracy class		Class 2 (EN13 190)		Class 1
Measuring ranges and scale division	Measuring range in °C -40 +40 -40 +60 -30 +50 -20 +60 -20 +80 0 60 0 80 0 100 0 120 0 160 0 200 0 250 0 300	limit of error ± °C 2 2 2 2 2 2 2 2 2 4 4 4 5 10	scale division in °C 1 1 1 1 1 1 1 2 2 2 2 5 5 5	
	0 400	10 stainless steel 1.4571	5	
Case / Bezel		_		
Window	A 1	-		
Dial Pointer	Aluminiu	-		
Scale angle	Alumi			
Connection	capillary tube back	_		
- Material		1		
Capillary tube	Ø 2 mm, stainless	1		
Stem	,	stainless steel 1.4571	~	1
Filled media	< 350	1		
Measuring principle		1		
Protection class	IF	1		
Weight (kg)				

## Dimensions

Model T4700 front bezel



Model T4700 back bezel





Model T4700 with device holder





ND	Dime	Dimensions in mm					Weight in kg	
100	d 8		d <sub>2</sub> 132	0		D2 99	1,400	

# Stem



Type of connection:	plain without thread	able; thread	union nut; female thread			
Material	1.4571	1.4	571	1.4571		
Stem length I <sub>1</sub>	140 mm 200 mm 240 mm 290 mm	80 mm 140 mm 180 mm 230 mm		89 mm 126 mm 186 mm 226 mm 276 mm		
Stem diameter	d = 8 mm	d = 8	mm d = 8 mr		3 mm	
Dimensions		SW - - - - - - - - - - - - - - - - - - -		- SW G. Ød		
G		SW	i	SW	i	
G 1/2	]	27	20	27	8,5	
G 3⁄4	]			32	10,5	
M24x1,5				32	13,5	

Type of connection:		able comp Idjustable		fitting, ac	table compression djustable on capillary tube		G¾			
				length:	$L = I_1 + ca$	i. 35 mm	M24	M24x1,5 / M18x1,5		
Material		1.4571		1.4571			1.4571			
Stem length I <sub>1</sub>		140 mm		140 mm		63 mm				
		200 mm			200 mm			100 mm		
		240 mm			240 mm		160 mm			
		290 mm			290 mm		200 mm			
		<sub>min</sub> = 60 m					250 mm			
Stem diameter		d = 8 mm		d = 8 mm			d = 8 mm			
Dimensions	- - -			ŝ					<u>w</u>	
G	SW	d4	i	SW	d4	i	SW	d <sub>4</sub>	i	
G ½	27	26	14	27	26	14	27	26	14	
G 3⁄4	32	32	16	32	32	16	32	32	16	
M18x1,5	24	23	12				24	23	12	
1/2NPT	22		19	22		19	22		19	

Ordering indformations Model / Measuring range / length of capillary tube / stem / options AE 1020 a