

Capillar thermometer with clamp

Housing: plastic

Model T4701 NG 60
Model T4703 NG 80
Model T4704 NG 100

Housing: steel

Model T4710 NG 60
Model T4713 NG 80
Model T4717 NG 100



Description

The housings of this product line are equipped with U-bolts, providing easy and secure panel installation in areas that are subjected to vibration.

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 $+350^{\circ}\text{C}$ are rapidly and accurately indicated by the closed system.

The capillary tube, which is between 500 and 10000 mm in length, allows measurements to be taken even at measuring points in distant areas.

Features

- i Fast response time
- i Measuring point and display in different locations
- i Secure installation using U-bolt
- i Slimline housing

Measuring ranges

$-40 \dots 60^{\circ}\text{C}$ to $0 \dots 400^{\circ}\text{C}$

Options

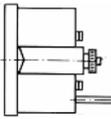
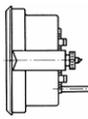
- i Measuring range $^{\circ}\text{F}$, $^{\circ}\text{C}/^{\circ}\text{F}$ (two different scales)

Applications

Mechanical engineering
Refrigeration engineering
Process technology
Food industry

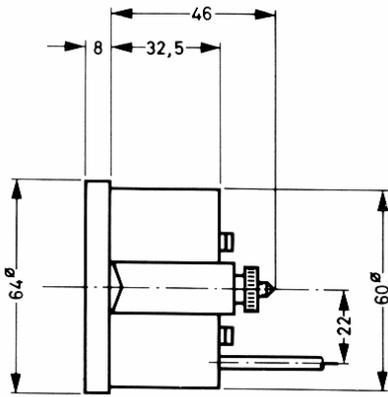
**Model: T4701, T4703, T4704
T4710, T4713, T4717**

Technical data

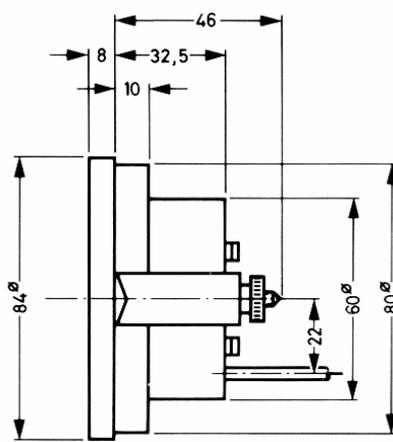
Model	T4701	T4703	T4704	T4710	T4713	T4717
Symbol						
Nominal size	60	80	100	60	80	100
Housing	plastic ABS			steel chromated		
Type of mounting	Panel mounting with clamp, front flange mounting ND 100					
Window	Plastic transparent					
Dial	background white, scale and imprint black					
Pointer	plastic black,					
Scale angle	approx. 270 °					
Measuring ranges and scale division	Measuring ranges	limit of error		scale division		
	in °C	±°C		in °C		
	-40... +40	2		1		
	-40... +60	2		1		
	-30... +50	2		1		
	-20... +60	2		1		
	-20... +80	2		1		
	0... 60	2		1		
	0... 80	2		1		
	0... 100	2		1		
	0... 120	4		2		
	0... 160	4		2		
0... 200	4		2			
0... 250	5		5			
0... 300	10		5			
0... 400	10		5			
Display accuracy	± 2 % of measuring range					
Connection capillary	back, excentric,					
Capillary tube	plastic coated or copper braided acc. to measuring range, capillary Cu.-alloy					
Stem	Cu.-alloy					
Filled media	< 350°C Xylol, >350°C silocone oil					
Measuring principle	fliud expansion					
Protection class	IP 54 (EN 60529/ IEC 529)					

Dimensions

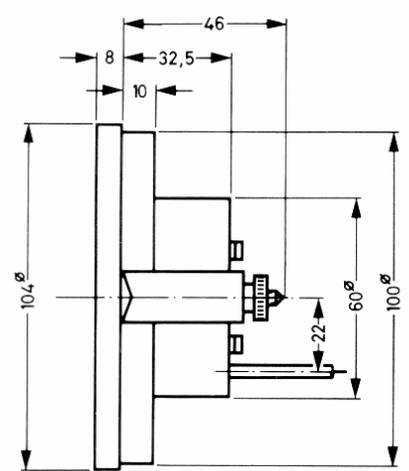
Model T4701 ND60



Model T4703 ND80

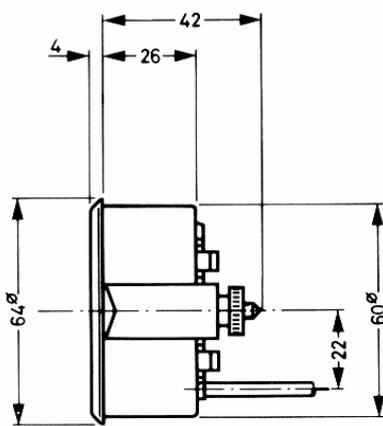


Model T4704 ND100

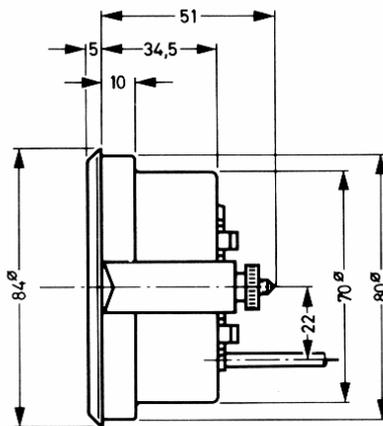


Housing steel

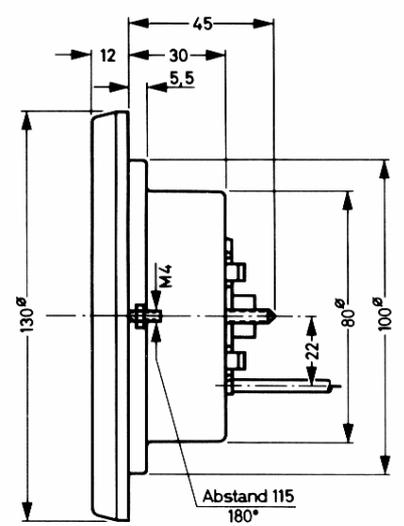
Model T4710 ND60



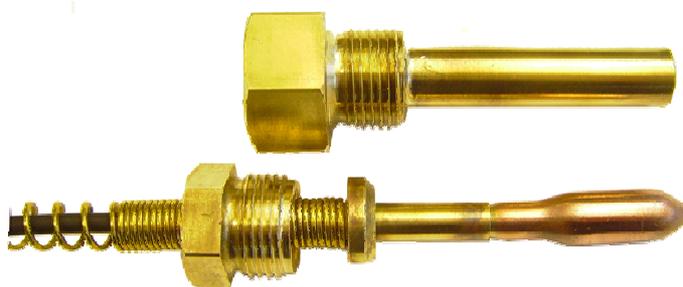
Model T4713 ND80

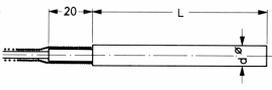
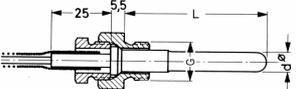
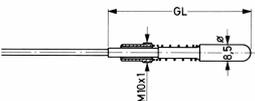


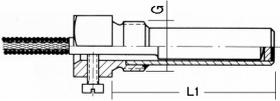
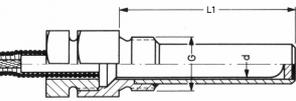
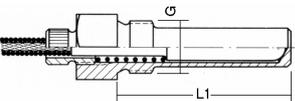
Model T4717 ND100



Stem and thermowells



Stem	plain; without thread	turnable with sealing cone and screwing	turnable with fixation spring
Material	Cu.-alloy	Cu.- alloy	Cu.- alloy
Stem length L	50 mm 75 mm 100 mm 150 mm 175 mm	50 mm 75 mm 100 mm 150 mm 175 mm	75 mm 100 mm 125 mm 175 mm
Stem diameter $\varnothing d$	6 mm 8 mm 8,5 mm 10 mm	6 mm 8 mm 8,5 mm 10 mm	8,5
Dimensions			
Thread G		M14x1,5 M16x1,5 M18x1,5 G 1/4 G 3/8 G 1/2 G 3/4	

Thermowell	multipart jacket for plain sensor fixation	multipart jacket for sensors with sealing cone	multipart jacket for sensors with fixation spring
Material	Cu.- alloy	Cu.- alloy	Cu.- alloy
Immersion length L1	100 mm 150 mm 200 mm	80 mm 100 mm 150 mm 200 mm	32 mm 45 mm 75 mm 100 mm 125 mm
Dimensions			
Thread G	G 3/8 G 1/2	G 3/8 G 1/2 G 3/4 M14x1,5	G 1/4 G 3/8 G 1/2 G 3/4 M18x1,5 5/8"-18 UNF

Ordering informations

Model / Measuring range / length of capillary tube / stem / options

Subject to technical changes