

Remote thermometer

with adjustable changeover contact

Case: plastic

Model T4770 **ND 60** Model T4772 **ND 80** Model T4774 ND 100

Case steel

Model T4780 **ND 60** Model T4782 ND 80 Model T4784 ND 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.

The switching point of the micro switch, which is installed as a two-way switch, can be varied over the entire temperature range. Devices with a fixed temperature value or one fixed switch and one adjustable switch can be supplied on request. A protective plastic cap for covering and sealing the connections is also available.

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

- Fast response time
- Measuring point and display in different locations
- 0 wide range of standard models
- 0 Secure installation using U-bolt
- Wide range of contacting and switching functions

Measuring ranges

-40 . . . 60 °C up to 0 . . . 400 °C

Options

- O Measuring range °F, °C/°F (Doppelteilung)
- Contact cover IP54

Applications

Mechanical engineering Refrigeration engineering Process technology Food industry

Model: T4770, T4772, T4774,

T4780, T4782, T4784

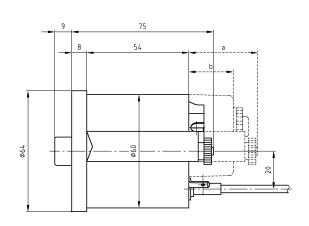
Technical data

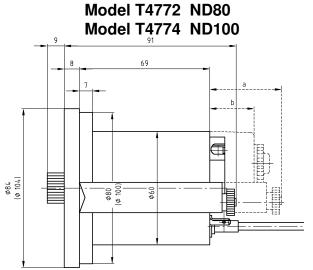
Model	T4770	T4772	T4774	T4780	T4782	T4784	
Symbol							
Nominal size	60	80	100	60	80	100	
Case		plastic ABS			steel chromate	ed	
Type of mounting	panel mounting with clamp, front bezel mounting at ND100						
Window				transparent			
Dial		back	ground white,	<u> </u>	int black		
Pointer			'	tic black			
Scale angle				ox. 270 °			
	Measuring range			limit of error		scale division	
		°C +40		± °C		in °C	
		. +40 +60		2		1	
				2		1	
		-30 +50 -20 +60		2		1	
	-20 +80		2			1	
Measuring ranges and	_	. 60		2		1	
scale division		. 80		2		1	
	0	0 100		2		1	
	0 120			4		2	
	0 160			4		2	
	0 200			4		2	
	0 250			5		5	
	0 300			10		5	
Display accuracy	0	400	+ 2 % of m	10		5	
Connection capillary	± 2 % of measuring range						
Capillary tube	back, eccentric plastic coated or copper braided acc. to measuring range, capillary Cualloy						
Capillary tabe	piastio	boated of copp			range, capmar	y ou. anoy	
length	max. 10.000 mm						
Stem	Cualloy						
Filled media	< 350°C Xylene, >350°C silicone oil						
Measuring principle	liquid expansion						
Switch difference	< 2% of measuring range						
Protection class (case)	IP 54 (EN 60529/ IEC 529)						
Switch options							
Type of switch	1 adjustable changeover						
(bold = standard)	andard) 1 fixed changeover 2 fixed changeover 2 common adjustable changeover						
	-	_					
Switch	1 adjustable and 1 fixed changeover						
SWILCH	1 single pole change over 2 single pin changeovers with separate supply						
	2 single pin changeovers with separate supply 2 single pin changeover with linked supply						
Contact current	5 A @ 250 V~	ingeover with illi	пси зирріу				
Contact current	contact current	10 A @ 250 V~					
Type of connection	clamp connect						
1,700 01 0011110011011	-).8x6.3				
Protection class	pin connection; AMP-flat plug 0,8x6,3 without protection cap, protection class IP 00						
	protection cap, protection class IP 51						
	protection cap, protection class IP 54						

Dimensions

Case: plastic

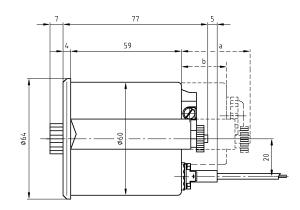
Model T4770 ND60

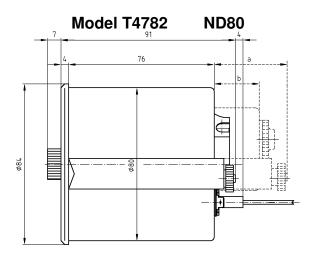




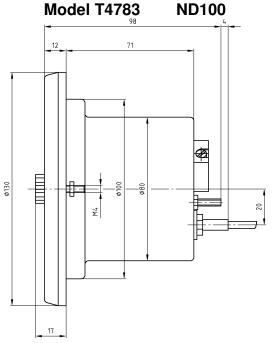
Stahlblechgehäuse Model T4780

ND60





Connection	Protection class		а	b
Clamp connection	IP 51	waterdrops	36	23,5
Clamp connection	IP 54	splashing water	36	23,5
Plug connection	IP 51	water drops	46	33,5
Plug connection	IP 54	splashing water	46	33,5



Stem and thermowells



Stem	plain; without thread	turnable with sealing cone	turnable with fixation
0.0		and screwing	spring
Material	Cualloy	Cu alloy	Cu alloy
Stem length L	50 mm	50 mm	75 mm
	75 mm	75 mm	100 mm
	100 mm	100 mm	125 mm
	150 mm	150 mm	175 mm
	175 mm	175 mm	
Stem diameter Ø d	6 mm	6 mm	8,5
	8 mm	8 mm	
	8,5 mm	8,5 mm	
	10 mm	10 mm	
Dimensions	20	25 - 5,5	GL 50 10 10 10 10 10 10 10 10 10 10 10 10 10
Thread G		M14x1,5 M16x1,5 M18x1,5 G ¼ G ¾ G ½	

Thermowell	multipart jacket for plain sensor fixation	multipart jacket for sen- sors with sealing cone	multipart jacket for sensors with fixation spring	
Material	Cu alloy	Cu alloy	Cu alloy	
Immersion length L1	100 mm	80 mm	32 mm	
	150 mm	100 mm	45 mm	
	200 mm	150 mm	75 mm	
		200 mm	100 mm	
			125 mm	
Dimensions			<u>o</u>	
Thread G	G % G ½	G % G ½ M14x1,5	G ¼ G ¾ G ½ G ¾ M18x1,5	

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

Subject to technical changes