

# TECHNICAL THERMOMETER STRAIGHT TR, ANGULAR TU

# TR, TU

### Description

Thermometers can be used for temperature measurement in any position. Thermometer head can be placed in environment with temperature range -30 °C to +110 °C. The maximum permissible deviation is for TR  $\pm 2$  % and for TU  $\pm 2,5$  % (L > 60 mm) or  $\pm 4$  % (L = 45 mm) from scale range. Measured temperature must not exceed maximum scale range.

Thermometers are manufactured with various stem lengths as shown in the table. The whole measuring system must be placed in measured environment to ensure accurate measurement. Recommended installation depth P is 100 mm, or the whole length of shorter stems. In some cases, especially at pressure bigger than 0,3 MPa



or in liquid environment, stem must be placed in thermometer well. Maximum pressure when well is used is 0,6 MPa. Thermometers TR with stem length 45 and 60 mm and thermometers with range 0  $^{\circ}$ C - 350  $^{\circ}$ C and 0  $^{\circ}$ C - 450  $^{\circ}$ C can be used only with thermometer well.

Thermometer consists from head and stem made of stainless steel class 17. Scale is protected by glass.

#### **Technical Data**

					Stem length L [ mm ]								
Туре	Head diameter [mm]	Scale division [°C]	Scale range [°C]	Measuring range [°C]	ø d = 8 mm (stainless (AKVS))						ø d = 10 mm (steel cl. 11 or AKVS) x* AKVS only		
					45	60	100	160	250	400	630	1000	1500
TR 60	60	1	-30 ÷ 50	-20 ÷ 40		х	x	х	х				
		1	0 ÷ 120	20 ÷ 100	X	x	x	X	x				
		2	0 ÷ 200	20 ÷ 180	X	x	×	X	x				
		5	0 ÷ 350	50 ÷ 300			x	х	x				
		10	0 ÷ 450	50 ÷ 400			x	X	x				
TR 100	100	1	-30 ÷ 50	-20 ÷ 40		x	x	х	x	x	x	х	х
		1	0 ÷ 120	20 ÷ 100	х	x	x	х	x	х	x	х	х
		2	0 ÷ 160	20 ÷ 140		x	x	х	x	x	х	х	х
		2	0 ÷ 200	20 ÷ 180	х	x	x	х	х	x	х	х	х
		5	0 ÷ 350	50 ÷ 300			x	х	х	x	х	х	х
		10	0 ÷ 450	50 ÷ 400			x	х	x	x	x*	x*	<b>x</b> *
TR 120	120	1	-30 ÷ 50	-20 ÷ 40		x	x	х	x	х	х	х	х
		1	0 ÷ 120	20 ÷ 100		x	x	X	×	x	×	x	x
		2	0 ÷ 200	20 ÷ 180		x	x	х	x	x	×	x	х
		5	0 ÷ 350	50 ÷ 300			x	X	×	x	×	х	х
		10	0 ÷ 450	50 ÷ 400			х	х	х	х	x*	x*	<b>x</b> *



					Stem length L [ mm ]								
Type	Head diameter [mm]	Scale division [° C]	Scale range [℃]	Measuring range [°C]	ø	ø d = 8 mm (stainless (AKVS))					ø d = 10 mm (steel cl. 11 or AKVS) x* AKVS only		
					45	60	100	160	250	400	630	1000	1500
TU 60	60	1	-30 ÷ 50	-20 ÷ 40			x	х	х	х			
		1	0 ÷ 120	20 ÷ 100			×	x	х	x			
		2	0 ÷ 200	20 ÷ 180			x	x	х	x			
		5	0 ÷ 350	50 ÷ 300			x	x	x	x			
		10	0 ÷ 450	50 ÷ 400			x	х	х	x			
TU 100	100	1	-30 ÷ 50	-20 ÷ 40			x	x	х	x	x	х	х
		1	0 ÷ 120	20 ÷ 100			x	x	х	x	x	x	х
		2	0 ÷ 160	20 ÷ 140			x	x	х	x	×	x	х
		2	0 ÷ 200	20 ÷ 180			×	×	х	x	×	x	х
		5	0 ÷ 350	50 ÷ 300			x	x	х	x	×	х	х
		10	0 ÷ 450	50 ÷ 400			x	х	х	x	x*	x*	x*
TU 120	120	1	-30 ÷ 50	-20 ÷ 40			x	X	х	x	x	x	x
		1	0 ÷ 120	20 ÷ 100			x	X	х	x	x	x	x
		2	0 ÷ 200	20 ÷ 180			x	x	х	х	x	x	x
		5	0 ÷ 350	50 ÷ 300			х	х	х	х	x	x	x
i e		10	0 ÷ 450	50 ÷ 400			х	х	х	х	x*	x*	x*

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