

TECHNICAL THERMOMETERS STRAIGHT DRT, ANGULAR DTU

Description and use

The DTR and DTU technical thermometers are designed to measure temperatures under operating conditions. They can be installed in any position. The thermometer head can be placed in the middle of a simple range of temperatures from -30°C to $+80^{\circ}\text{C}$. The thermometers are designed for pressure of 0,3 MPa, or up to 0,6 MPa when using a well. DTR and DTU thermometers are universal thermometers that can be used in all industries where no special hygiene regulations are required. Thermometers are installed using a well that protects the stem against liquids and pressures higher than 0,3 MPa.

For DTR and DTU thermometers, the recommended depth of immersion of the stem into the measured medium is at least 100 mm. DTR and DTU thermometers can only be used in liquids and humid environments with a well. The measured accuracy for all ranges is 2,5% of the scale range. Thermometers with a range of $0\div 350^{\circ}\text{C}$ and $0\div 450^{\circ}\text{C}$ must not be used without a well. Thermometers with a stem length of 60 mm are only manufactured in DTR type with ranges up to $+200^{\circ}\text{C}$, where the entire stem must be inserted into the measuring medium. Other uses of thermometers must be discussed with the manufacturer. Thermometers must not be used as safety equipment.

Technical specification

Type	Scale division [$^{\circ}\text{C}$]	Scale range [$^{\circ}\text{C}$]	Measuring range [$^{\circ}\text{C}$]	Stem length [mm]							
				$\varnothing$ 8 mm [stainless steel (AKVS)]					$\varnothing$ 12 mm (steel class11)		
				60	100	160	250	400	630	1000	1500
DTR	1	$-30 \div +50$	$-20 \div +40$	x	x	x	x	x	x	x	x
	1	$0 \div 120$	$20 \div 100$	x	x	x	x	x	x	x	x
	2	$0 \div 200$	$20 \div 180$	x	x	x	x	x	x	x	x
	5	$0 \div 350$	$50 \div 300$		x	x	x	x	x	x	x
	10	$0 \div 450$	$50 \div 400$		x	x	x	x	x	x	x
DTU	1	$-30 \div +50$	$-20 \div +40$		x	x	x	x	x	x	x
	1	$0 \div 120$	$20 \div 100$		x	x	x	x	x	x	x
	2	$0 \div 200$	$20 \div 180$		x	x	x	x	x	x	x
	5	$0 \div 350$	$50 \div 300$		x	x	x	x	x	x	x
	10	$0 \div 450$	$50 \div 400$		x	x	x	x	x	x	x

Storage

Storage areas must be free of chemicals or other agents that could interfere with the finished stored products. Thermometers must be handled with care and without major impacts. Thermometers must be stored in a dry room with a maximum humidity of 70% and a temperature of 0°C to 30°C , without sudden temperature changes.

Installation

During installation, the stem must not be subjected to shocks or bending. Thermometer wells can be used to secure DTR and DTU thermometers. Thermometers must not be modified for installation conditions.

Disposal

Dispose of as follows: Take to recycling center.

Possible minor faults and their removal

Defects in DTR and DTU thermometers shall be repaired exclusively by the manufacturer.

Warranty

Provided that the product is installed and used in accordance with the instructions in the operating manual, the manufacturer provides warranty in accordance with the applicable law, unless otherwise agreed.

The manufacturer will refuse warranty repairs if the device has been damaged:

- During transport by the customer or their customer
- During installation or removal from the customer's or their customers' equipment

Warranty and post-warranty repairs

Warranty and post-warranty repairs are provided by the manufacturer. Please pack the defective product and send it to the following address:

APATOR POWOGAZ CZECHIA s.r.o.

Havlíčková 919/24

787 01 Šumperk

Tel.: 583 718 263

E-mail: prodej@metra-su.cz

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