



# BIMETALLIC THERMOSTAT THBT WITH Pt100 SENSOR THBTST

## DESCRIPTION:

- wide range of switch-on values
- high accuracy, no need to charge, wide working range of surrounding temperature
- integrated construction, easy to install

## APPLICATION:

- chemical industry
- heating industry
- power engineering
- pharmacy

## TECHNICAL PARAMETERS:

- heat range: from 65 °C to 150 °C according to used sensor
- connection thread: G1/2 (G1/4, G3/4, M12x1,5, M20x1,5, M27x2, NPT) or on individual request
- possibility to extend with temperature sensor Pt100 ( THBTST )

## SPECIFICATION:

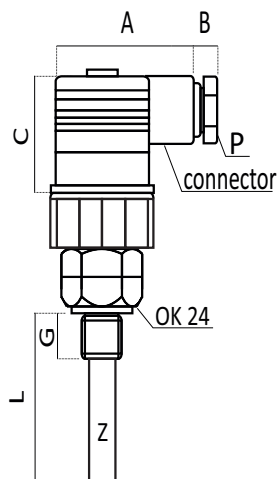
Bimetallic thermostat THBT in compact and robust case can be extended with temperature sensor Pt100 ( THBTST ). Thermostats are suitable for direct mounting and also for mounting into thermowell. Thermostats are adjusted for specific switch-on / switch-off value from production and can not be changed by user later.

Sensors are suitable for wide range of applications in industry, food processing, air-conditioning systems, heating, hydraulic etc. (sensors for air temperature are used without thermowells due to quick response receiving)

Compact and robust case is suitable for wide range of applications, it is possible to provide variable connection threads on individual request. Magnesium oxide guarantees high resistance against impacts and vibrations and also improves heat exchange and electrical insulation of sensor.

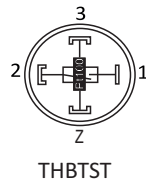
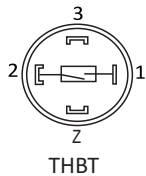
Technical parameters			
Medium	gas or liquid suitable for contact with stainless steel	Storage temperature	-40+80°C
Range	values of adjustment 65, 80, 85, 90, 95, 100, 105, 110, 115, 120, 130, 150	Working heat range	-30+80°C
Wiring	NO / NC	Material	AISI304, AISI316TI, PTFE foil
Submersible length	55mm individual	Thermal response time	without th.w.-air 45s, water 8s with thermowell - water 35s
Version	thermostat(THBT)/thermostat+Pt100(THBTST)	Protection	IP 65
Connection thread	G1/4, G1/2, G3/4, M12x1,5, M20x1,5, M27x2, NPT, individual	Max. overpressure	without th.w. - 10MPa/100°C, 3,1MPa/300°C
Connector	DIN 43650, Mini, Mikro, M14x1	Contact load	230VAC/2,5A
Sensor type	Bimetallic thermostat THBT( Pt100 THBTST)	Time stability	0,05% (10 000 hours)

• THBT / THBTST



Dimensions in mm						
A	B	C	P	G	L	Z
41	~ 5	34	Pg7	16	55	12

Wiring diagram



THBT / THBTST		Switch-off	Switching difference
T65	65	15	
T80	80	15	
T85	85	15	
T90	90	15	
T95	95	15	
T100	100	15	
T105	105	15	
T110	110	15	
T115	115	15	
T120	120	15	
T130	130	20	
T150	150	20	
Length			
55			
XXX	Individual		
Outer Ø of stem			
12			
Code	Connection		
P1	G1/4		
P2	G1/2		
P8	G3/4		
P6	M12x1,5		
P4	M20x1,5		
P7	M27x2		
P5	NPT		
Pz	Individual		
Code	Version		
	Can be stated in title		
BT	THBT version with thermostat only		
BTST	THBTST version with thermostat and temperature sensor Pt100		
Code	Connector		
E1	DIN 43650		
E5	DIN 43650 Mini		
E6	DIN 43650 Mikro		
E7	M14x1		
Code	Material		
M1	AISI304		
M2	AISI316Ti		
M3	PTFE foil coating		

THBT	T95	55	12	P2	BT	E1	M1
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